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International Center for Agricultural Research in the Dry Areas
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Note to Readers

This is the fourth supplement to the cumulative ICARDA publications Catalog 1977–1990. The first supplement for 1991 was published in 1993, the second supplement for 1992–1993 was published in 1994 and the third supplement for 1994–1995 was published in 1996. Citations are classified into eight categories, and listed by the year of publication. Theses produced with ICARDA's support are also listed.

Titles listed in this supplement can be obtained, subject to availability of stocks, by writing to ICARDA. The Depository Libraries listed in Appendix A hold all key publications of ICARDA and other international agricultural research centers and make them available to readers in their respective countries through interlibrary loan and photocopy services. Readers are encouraged to use the services of these libraries if their requests cannot be fulfilled by ICARDA due to non-availability of stocks.

Some of the titles listed in this catalog are not available free of charge. Their prices are given at the end of their citations. ICARDA uses a two-tier pricing policy for high-income and low-income countries, denoted as HIC and LIC in the catalog. These prices include postage and handling charges. Payments, in U.S. dollars, are accepted by cheques only. The cheques should be written in favor of ICARDA and mailed to: Head, Communication, Documentation and Information Services, ICARDA, P.O. Box 5466, Aleppo, Syria.

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Major Reports

Annual Reports

- (0001) ICARDA, Aleppo (Syria). 1996. ICARDA annual report 1995. [En]. 106 pp.
- (0002) ICARDA, Aleppo (Syria). 1996. ICARDA annual report 1995. [Ar]. 106 pp.
- (0003) ICARDA, Aleppo (Syria). 1997. ICARDA annual report 1996. [En]. 114 pp.
- (0004) ICARDA, Aleppo (Syria). 1997. ICARDA annual report 1996. [Ar]. 114 pp.

Program Reports

- (0005) ICARDA, Aleppo (Syria). 1997. Germplasm program: cereals annual report 1995. [En]. 238 pp.
- (0006) ICARDA, Aleppo (Syria). 1997. Farm resource management program annual report 1995. [En]. 176 pp.
- (0007) ICARDA, Aleppo (Syria). 1997. Germplasm program: legumes annual report 1995. [En]. 210 pp.
- (0008) ICARDA, Aleppo (Syria). 1996. Pasture, forage and livestock program annual report 1995. [En]. 310 pp.
- (0009) ICARDA, Aleppo (Syria). 1996. Seed Unit annual report 1995. [En]. 29 pp.
- (0010) ICARDA, Aleppo (Syria). 1997. Seed Unit annual report 1996. [En]. 32 pp.

Regional Program Reports

Nile Valley Regional Program

(Available from: ICARDA, 15 G. Radwan Ibn El-Tabib Giza, 11th Floor, P.O. Box 2416, Cairo, Egypt)

- (0011) ICARDA, Cairo (Egypt). 1996. Nile Valley Regional Program on cool-season food legumes and cereals: annual report 1993/94, Egypt. [En]. 185 pp.

En, English; Ar, Arabic; Fr, French; Es, Spanish; De, German.

- (0012) ICARDA, Cairo (Egypt). 1996. Nile Valley and Red Sea Regional Program on cool-season food legumes and wheat: annual report 1994/95, Egypt. [En]. 185 pp.
- (0013) ICARDA, Cairo (Egypt). 1996. Nile Valley Regional Program on cool-season food legumes: annual report 1993/94, Ethiopia. [En]. 232 pp.
- (0014) ICARDA, Cairo (Egypt). 1996. Nile Valley and Red Sea Regional Program on barley: annual report 1994/95, Ethiopia. [En]. 106 pp.
- (0015) ICARDA, Cairo (Egypt). 1997. Nile Valley and Red Sea Regional Program on cool-season food legumes: annual report 1995/96, Ethiopia. [En]. 114 pp.
- (0016) ICARDA, Cairo (Egypt). 1996. Nile Valley Regional Program on cool-season food legumes and wheat: annual report 1993/94, Sudan. [En]. 186 pp.
- (0017) ICARDA, Cairo (Egypt). 1996. Nile Valley and Red Sea Regional Program on cool-season food legumes and wheat: annual report 1994/95, Sudan. [En]. 132 pp.
- (0018) ICARDA, Cairo (Egypt). 1996. Nile Valley and Red Sea Regional Program on cool-season food legumes, cereals, and resource management, workplan and budget, 1995/96, Egypt. [En]. 117 pp.
- (0019) ICARDA, Cairo (Egypt). 1997. Nile Valley and Red Sea Regional Program on cool-season food legumes, cereals, and resource management, workplan and budget, 1996/97, Egypt. [En]. 119 pp.
- (0020) ICARDA, Cairo (Egypt). 1996. Nile Valley and Red Sea Regional Program on barley, workplan and budget, 1995/96, Ethiopia. [En]. 64 pp.
- (0021) ICARDA, Cairo (Egypt). 1997. Nile Valley and Red Sea Regional Program on barley, workplan and budget, 1996/97, Ethiopia. [En]. 66 pp.
- (0022) ICARDA, Cairo (Egypt). 1996. Nile Valley and Red Sea Regional Program on cool-season food legumes and cereals, regional networks, workplan and budget, 1994/95. [En]. 263 pp.
- (0023) ICARDA, Cairo (Egypt). 1997. Nile Valley and Red Sea Regional Program on cool-season food legumes and cereals, regional networks, workplan and budget, 1995/96. [En]. 88 pp.
- (0024) ICARDA, Cairo (Egypt). 1996. Nile Valley and Red Sea Regional Program on cool-season food legumes and wheat, workplan, 1995/96, Sudan. [En]. 63 pp.
- (0025) Solh, M.B. 1996. The Nile Valley Regional Program (NVRP): a model for technology transfer. [En]. 36 pp.

North Africa Regional Program

(Available from: ICARDA, B.P. 435, 1004 El Menzah, Tunis, Tunisia)

- (0026) ICARDA, Tunis (Tunisia). 1996. North Africa/ICARDA regional coordination meeting: research highlights and work plans 1994/1995 in collaboration with the Algerian, Libyan, Moroccan and Tunisian agricultural research programs. [En]. 95 pp.

West Asia Regional Program

(Available from: ICARDA, P.O. Box 950764, Amman, Jordan)

- (0027) Driouchi, A.; Boulif, M. 1996. Increased productivity of barley, pasture and sheep in the critical rainfall zones: consultancy report on economic assessment of Mashreq Project Technology Transfer (1989-1992). [En]. 44 pp.
- (0028) Gursoy, O. 1996. Increased productivity of barley, pasture and sheep in the critical rainfall zones: consultancy report on animal production. [En]. 35 pp.
- (0029) Haddad, N. 1996. The development of integrated crop/livestock production in the low rainfall areas of West Asia and North Africa (Mashreq/Maghreb Project). Annual report: a regional perspective (1994/1995 season). ICARDA/IFPRI/AFESD/IFAD. [En]. 102 pp.
- (0030) Haddad, N. 1996. The development of integrated crop/livestock production in the low rainfall areas of West Asia and North Africa (Mashreq/Maghreb Project). Annual report: a regional perspective (1995/1996 season). ICARDA/IFPRI/AFESD/IFAD. [En]. 282 pp.
- (0031) Haddad, N. 1996. The development of integrated crop/livestock production in the low rainfall areas of West Asia and North Africa (Mashreq/Maghreb Project). Annual report: a regional perspective (1995/1996 season). ICARDA/IFPRI/AFESD/IFAD. [En]. 132 pp.
- (0032) Hadjichristodoulou, A. 1996. Increased productivity of barley, pasture and sheep in the critical rainfall zones: consultancy report on barley and self-regenerating barley. [En]. 21 pp. Mashreq Project RAB/89/026.
- (0033) Hadjipanayioutou, M. 1996. Increased productivity of barley, pasture and sheep in the critical rainfall zones: consultancy report on utilization of by-product and urea-treated straw in small ruminant feeding. [En]. 36 pp.
- (0034) Hadjipanayioutou, M. 1996. Increased productivity of barley, pasture and sheep in the critical rainfall zones: consultancy report on production and utilization of agricultural by-product block for sheep feeding. [En]. 13 pp.

- (0035) ICARDA, Amman (Jordan). 1996. The development of integrated crop/livestock production in the low rainfall areas of West Asia and North Africa (Mashreq/Maghreb Project): annual report 1994/1995 season. ICARDA/IFAD/IFPRI/AFESD. [En]. 182 pp.
- (0036) Ababneh, M. 1997. The development of integrated crop/livestock production in the low rainfall areas of West Asia and North Africa (Mashreq/Maghreb Project): review of forage legumes in Jordan. ICARDA/AFESD/IFAD. [En]. 21 pp.
- (0037) Adary, A.; Kasim, K. 1997. The development of integrated crop/livestock production in the low rainfall areas of West Asia and North Africa: forage production technologies in Iraq (Mashreq/Maghreb Project). ICARDA/AFESD/IFAD. [En]. 19 pp.
- (0038) Al-Rawi, A.A.; Al-Haboby, A.H.; Al-Salman, M.H. 1997. The development of integrated crop/livestock production in the low rainfall areas of West Asia and North Africa: small ruminants breeding and reproductive physiology research and technology transfer in Iraq (Mashreq/Maghreb Project). ICARDA/AFESD/IFAD. [En]. 110 pp.
- (0039) Al-Shamma, A.; Adary, A.; Al-Rawi, B. 1997. The development of integrated crop/livestock production in the low rainfall areas of West Asia and North Africa: barley production technologies in Iraq (Mashreq/Maghreb Project). ICARDA/AFESD/IFAD. [En]. 23 p.
- (0040) Bounejmate, M. 1997. The development of integrated crop/livestock production in the low rainfall areas of West Asia and North Africa: review of forage legume research program in Iraq (Mashreq/Maghreb Project). ICARDA/AFESD/IFAD. [En]. 13 pp.
- (0041) Haboby, A. 1997. The development of integrated crop/livestock production in the low rainfall areas of West Asia and North Africa: sheep improvement program in Tunisia and Morocco, an emphasis on reproductive physiology (Mashreq/Maghreb Project). ICARDA/AFESD/IFAD. [En]. 32 pp.
- (0042) Haddad, N. (ed.). 1997. The development of integrated crop/livestock production in the low rainfall areas of West Asia and North Africa: farmer participation in research and technology transfer (RTT) in the Mashreq/Maghreb Project (Mashreq/Maghreb Project). ICARDA/AFESD/IFAD. [En]. 20 pp.
- (0043) Katkhuda, N.; Yassin, A. 1997. The development of integrated crop/livestock production in the low rainfall areas of West Asia and North Africa: barley research and technology transfer in Jordan (Mashreq/Maghreb Project). ICARDA/AFESD/IFAD. [En]. 22 pp.

- (0044) Khraisat, E.F.; Ershaidat, Q.M.; Al-Hamad, M.N.; Awawdeh, F.T. 1997. The development of integrated crop/livestock production in the low rainfall areas of West Asia and North Africa: Mashreq/Maghreb Project 1996/1997, sheep fertility survey in Jordan. ICARDA/NCARTT/AFESD/IFAD. [En]. 39 pp.
- (0045) Masri, A. 1997. The development of integrated crop/livestock production in the low rainfall areas of West Asia and North Africa: a proposal for developing a participatory project for rangeland improvement in Jordan (Mashreq/Maghreb Project). ICARDA/AFESD/IFAD. [En]. 62 pp.
- (0046) Nefzaoui, A. 1997. The development of integrated crop/livestock production in the low rainfall areas of West Asia and North Africa: the potential use of olive by-product in animal feeding in Syria, part 1 (Mashreq/Maghreb Project). ICARDA/AFESD/IFAD. [En]. 38 pp.
- (0047) Nefzaoui, A. 1997. The development of integrated crop/livestock production in the low rainfall areas of West Asia and North Africa: the potential use of olive by-product in animal feeding in Jordan: part 2 (Mashreq/Maghreb Project). ICARDA/AFESD/IFAD. [En]. 30 pp.
- (0048) Salman, A. 1997. The development of integrated crop/livestock production in the low rainfall areas of West Asia and North Africa: the potential of by-product feed block in Tunisia (Mashreq/Maghreb Project). ICARDA/AFESD/IFAD. [En]. 13 pp.
- (0049) Sunna, S.J. 1997. The development of integrated crop/livestock production in the low rainfall areas of West Asia and North Africa: a review of research and development efforts in the Mashreq region in the area of barley-forage legumes and small ruminants (Mashreq/Maghreb Project). ICARDA/AFESD/IFAD. [En]. 60 pp.

Highland Regional Program (Turkey) ---

(Available from: ICARDA, P.O. Box 39, EMEK, Ankara, Turkey)

- (0050) ICARDA, Ankara (Turkey). 1996. Highland Regional Program, EC/ICARDA Mediterranean Highlands Project (MED/94/B7-4080/3939): enhancing productivity and sustainability of crop production in the Mediterranean highlands, research results 1995/96 and workplan 1996/97. EC/IRESA/INRA/ITGC/TARM/ICARDA. [En]. 41 pp.
- (0051) ICARDA, Ankara (Turkey). 1996. Highland Regional Program, sixth annual coordination meeting of the Turkey/ICARDA Highland Project: a brief report and workplan for 1996/97 season. Cukurova University/ICARDA. 14-17 Oct 1996, Adana, Turkey. [En]. 27 pp.

- (0052) ICARDA, Ankara (Turkey). 1997. First highland regional coordination meeting for West Asia and North Africa: a brief report and workplan for 1997/98 season. ICARDA Highland Regional Program/TARM. 21-24 Oct 1997, Ankara, Turkey. [En]. 39 pp.
- (0053) ICARDA, Ankara (Turkey). 1997. First Central Asia/ICARDA regional coordination meeting: a brief report. Highland Regional Program - Central Asia Sub-Region. 13-16 Sept 1997, Aleppo, Syria. [En]. 23 pp.
- (0054) Nordblom, T.; Shomo, F.; Gintzburger, G.; Thomson, E. 1997. Population, land, grain production and consumption, range and other feed sources for livestock: past, present and projected to 2025 for Central Asia. Highland Regional Program: Central Asia Sub-Region. [En, Ru]. 25 pp.

Latin America Regional Program

- (0055) ICARDA, Aleppo (Syria). 1996. Annual report for the international barley yield trials 1993/94. [En]. 88 pp.
- (0056) ICARDA, Aleppo (Syria). 1996. Annual report for CIMMYT/ICARDA regional bread wheat yield trials 1993/94. [En]. 50 pp.
- (0057) ICARDA, Aleppo (Syria). 1996. Annual report for CIMMYT/ICARDA regional durum wheat yield trials 1993/94. [En]. 64 pp.

Iran/ICARDA Collaborative Program

- (Available from: Ministry of Agriculture, Agricultural Research Organization, Tehran, Iran)
- (0058) ICARDA, Aleppo (Syria). 1997. Iran/ICARDA Collaborative Project and Research and Training Program: fourth planning and coordination meeting 1996/97, 7-10 Sept 1996, Maragheh, Iran. [En]. 109 pp.
- (0059) ICARDA, Aleppo (Syria). 1997. Iran/ICARDA Collaborative Project and Research and Training Program: fifth planning and coordination meeting 1997/98, 13-17 Sept 1997, Maragheh, Iran. [En]. 120 pp.

International Nursery Reports

Legumes

- (0060) ICARDA, Aleppo (Syria). 1996. International nursery report No. 16. Food legume nurseries 1991/92 [En]. 352 pp.
- (0061) ICARDA, Aleppo (Syria). 1997. International nursery report No. 17. Legume nurseries 1992/93. [En]. 347 pp.

Program of Work and Budget

- (0062) ICARDA, Aleppo (Syria). 1996. ICARDA's Program of Work and Budget 1997. [En]. 63 pp.

Specialized Publications

Newsletters/Periodicals

- (0063) Gregg, B.; Abd El Wanis, M.S.; Bishaw, Z.; van Gastel, A.J.G. 1996. Plant variety protection. [En]. 30 pp. WANA Seed Network Publication No. 12/1996.
- (0064) ICARDA, Aleppo (Syria). 1996. WANA catalogue of weed seeds. [En]. 100 pp. WANA Seed Network Publication No. 13/1996.
- (0065) ICARDA, Aleppo (Syria). 1996. WANA catalogue of cultivated crops. [En]. 48 pp. WANA Seed Network Publication No. 14/1996.
- (0066) ICARDA, Aleppo (Syria). 1996. WANA catalogue of varieties (Draft). [En]. 84 pp. WANA Seed Network Publication No. 15/1996.
- (0067) ICARDA, Aleppo (Syria). 1996. Dryland Pasture, Forage and Range Network News. [En]. 28 pp. No. 12.
- (0068) ICARDA, Aleppo (Syria). 1997. Dryland Pasture, Forage and Range Network News. [En]. 36 pp. No. 13.
- (0069) ICARDA, Aleppo (Syria). 1997. Dryland Pasture, Forage and Range Network News. [En]. 28 pp. No. 14.
- (0070) ICARDA, Aleppo (Syria). 1997. FABIS Newsletter. [En, Ar]. 32 pp. No. 36-37.
- (0071) ICARDA, Aleppo (Syria). 1996. Focus on Seed Programs: The Yemen seed industry. [En]. 6 pp. No. 6.
- (0072) ICARDA, Aleppo (Syria). 1996. Focus on Seed Programs: The Turkish seed industry. [En]. 10 pp. No. 7.
- (0073) ICARDA, Aleppo (Syria). 1997. Focus on Seed Programs: the Cyprus seed industry. [En]. 6 pp. No. 8.
- (0074) ICARDA, Aleppo (Syria). 1997. Focus on Seed Programs: The Lebanon seed industry. [En]. 6 pp. No. 9.

- (0075) ICARDA, Aleppo (Syria). 1997. Focus on Seed Programs: The Tunisian seed industry. [En]. 6 pp. No. 10.
- (0076) ICARDA, Aleppo (Syria). 1996. ICARDA Caravan: Review of Dryland Agriculture. [En]. 20 pp. No. 2 Winter 1995/96.
- (0077) ICARDA, Aleppo (Syria). 1996. ICARDA Caravan: Review of Dryland Agriculture. [En]. 24 pp. No. 3 Spring/Summer.
- (0078) ICARDA, Aleppo (Syria). 1996. ICARDA Caravan: Review of Dryland Agriculture. [En]. 24 pp. No. 4 Autumn/Winter.
- (0079) ICARDA, Aleppo (Syria). 1997. ICARDA Caravan: Review of Agriculture in the Dry Areas. [En]. 24 pp. No. 5 Winter/Spring.
- (0080) ICARDA, Aleppo (Syria). 1997. ICARDA Caravan: Review of Agriculture in the Dry Areas. [En]. 28 pp. No. 6 Spring/Summer.
- (0081) ICARDA, Aleppo (Syria). 1997. ICARDA Caravan: Review of Agriculture in the Dry Areas: 20th anniversary special. [En]. 31 pp. No. 6 Spring/Summer, Supplement.
- (0082) ICARDA, Aleppo (Syria). 1996. LENS Newsletter. [En, Ar]. 60 pp. Vol. 23, No. 1-2.
- (0083) ICARDA, Amman (Jordan). 1996. Mashreq-Maghreb Project Newsletter. [Ar, En]. 32 pp. No. 8. [Available from: ICARDA, P.O. Box 950764, Amman, Jordan].
- (0084) ICARDA, Amman (Jordan). 1996. Mashreq-Maghreb Project Newsletter. [Ar, En]. 36 pp. No. 9.
- (0085) ICARDA, Amman (Jordan). 1997. Mashreq-Maghreb Project Newsletter. [Ar, En]. 36 pp. No. 10.
- (0086) ICARDA, Amman (Jordan). 1997. Mashreq-Maghreb Project Newsletter. [Ar, En]. 32 pp. No. 11.
- (0087) ICARDA, Aleppo (Syria). 1996. Seed Info. [En]. 19 pp. No. 10.
- (0088) ICARDA, Aleppo (Syria). 1996. Seed Info. [En]. 19 pp. No. 11.
- (0089) ICARDA, Aleppo (Syria). 1997. Seed Info. [En]. 24 pp. No. 12.
- (0090) ICARDA, Aleppo (Syria). 1997. Seed Info. [En]. 20 pp. No. 13.

Workshop Proceedings and Reference Books

- (0091) Ageeb, O.A.; Elahmadi, A.B.; Solh, M.B.; Saxena, M.C. (eds.). 1996. Wheat production and improvement in the Sudan: proceedings of the National Research Review Workshop. ARC/DGIS/ICARDA. 27-30 Aug 1995, Wad Medani, Sudan. [En]. 262 pp. [Available from: ICARDA, 15 G. Radwan Ibn El-Tabib Str., P.O. Box 2416, Cairo, Egypt]. ISBN: 92-9127-043-1.
- (0092) Gast, H. (ed.). 1996. Organisation and management of national seed programmes: proceedings of a follow-up seminar/workshop. DSE/ICARDA. 12-24 Nov 1995, Aleppo, Syria. [En]. 283 pp. [Available from: DSE, Wielinger St. 52, D-82336 Feldafing, Germany]. ISBN: 3-424441-99-5.
- (0093) Gebre, H.; van Leur, J. (eds.). 1996. Barley research in Ethiopia: past work and future prospects: proceedings of the First Barley Research Review Workshop. Institute of Agricultural Research/ICARDA. 16-19 Oct 1993, Addis Abeba, Ethiopia. [En]. 195 pp. [Available from: Institute of Agricultural Research, P.O. Box 2003, Addis Abeba, Ethiopia]. ISBN: 92-9127-046-6.
- (0094) ICARDA, Aleppo (Syria). 1996. Assessment of research and seed production needs in dryland agriculture in the West and the Central Asian republics: summary proceedings of workshop. ICARDA/GTZ/UAAS. 5-9 Dec 1996, Tashkent, Uzbekistan. [En]. 17 pp. [Also available in Russian].
- (0095) ICARDA, Ankara (Turkey). 1996. Abstracts of the 5th International Wheat Conference. Ministry of Agriculture and Rural Affairs, Turkey/CIMMYT/ICARDA/Oregon State University/USAID/GTZ. 10-14 June 1996, Ankara, Turkey. [En]. 468 pp. [Available from: Ministry of Agriculture and Rural Affairs, Milli Mudafaca Caddesi, No. 20 Kiziley, Ankara 06171, Turkey].
- (0096) Nassif, A.; Khabbaz, A. 1996. Winter chickpea in Syria. [Ar]. 16 pp. Ministry of Agriculture and Agrarian Reform/ICARDA. [Available from: Ministry of Agriculture and Agrarian Reform, Damascus, Syria].
- (0097) Peacock, J.M. (ed.). 1996. Dryland biodiversity conservation through natural resource management: summary proceedings of a workshop. 5-9 Feb 1995, Amman, Jordan. [En]. 64 pp. ISBN: 92-9127-031-8.
- (0098) Salih, S.H.; Ageeb, O.A.; Saxena, M.C.; Solh, M.B. (eds.). 1996. Production and improvement of cool-season food legumes in the Sudan: proceedings of the National Research Review Workshop. ARC/DGIS/ICARDA. 27-30 Aug 1995, Wad Medani, Sudan. [En]. 250 pp. ISBN: 92-9127-042-3.
- (0099) Saxena, N.P.; Saxena, M.C.; Johansen, C.; Virmani, S.M.; Harris, H. (eds.). 1996. Adaptation of chickpea in the West Asia and North Africa region: proceedings of a workshop on adaptation of chickpea in the West Asia and North

- Africa region. ICRISAT/ICARDA. November 1992, ICARDA, Aleppo, Syria. [En]. 262 pp. [Available from: ICRISAT, Patancheru, Andhra Pradesh 502 324, India]. ISBN: 92-9066-336-7.
- (0100) Singh, K.B.; Saxena, M.C. 1996. Winter chickpea in mediterranean-type environments. A technical bulletin. [En]. 39 pp. ISBN: 92-9127-039-3. Price US\$ 25.00 for HIC and US\$ 15.00 for LIC.
- (0101) van Gastel, A.J.G.; Pagnotta, M.A.; Porceddu, E. (eds.). 1996. Seed science and technology: proceedings of a train-the-trainers workshop. Med-campus Programme (EEC)/ICARDA. 24 Apr - 9 May 1993, Amman, Jordan. [En]. 311 pp. ISBN: 92-9127-049-0. Price US\$ 35.00 for HIC and US\$ 20.00 for LIC.
- (0102) Bari, A.; Jaradat, A.A. (comp.). 1997. International *Triticeae* symposium summary proceedings. IPGRI/TC/ICARDA. 4-8 May 1997, Aleppo, Syria. [En]. 63 pp. ISBN: 92-9043-326-4.
- (0103) Christiansen, S.; Vaughan, C.M.A. (eds.). 1997. Conservation, management and sustainable use of dryland biodiversity within priority agro-ecosystems of the Near East: highlights of the proceedings of a workshop, 31 Oct - 3 Nov 1995, Izmir, Turkey. [En]. 54 pp. ISBN: 92-9127-051-2. Price US\$ 10.00 for HIC and US\$ 5.00 for LIC.
- (0104) Damania, A.B.; Valkoun, J. (eds.). 1997. The origins of agriculture and domestication of crop plants in the Near East - The Harlan Symposium, 10-14 May 1997, ICARDA, Aleppo, Syria. [En]. 70 pp.
- (0105) Haddad, N.; Al-Kharablieh, E.; Bailey, E. 1997. Development and transfer of improved technologies for integrated crop-livestock production in low-rainfall zones: achievements of the Mashreq Project. Ministry of Agriculture and Agrarian Reform, Syria/Ministry of Agriculture and Agrarian Reform, Iraq/UNDP/ICARDA/AFESD/IFAD. [En]. 28 pp. [Available from: ICARDA, Aleppo, Syria]. ISBN: 92-9127-063-6.
- (0106) Haddad, N.; Tutwiler, R.; Thomson, E. (eds.). 1997. Improvement of crop-livestock integration systems in West Asia and North Africa: proceedings of the regional symposium on integrated crop-livestock systems in the dry areas of West Asia and North Africa. UNDP/ICARDA/AFESD/IFAD. 6-8 Nov 1995, Amman, Jordan. [En]. 612 pp. [Available from: ICARDA, Aleppo, Syria]. ISBN: 92-9127-065-2. Price US\$ 45.00 for HIC and US\$ 25.00 for LIC.
- (0107) ICARDA, Aleppo (Syria). 1997. Second international conference on soil solarization and integrated management of soilborne pests: program and abstracts book. FAO/ICARDA/University of California/Arab Society for Plant Protection/University of Jordan. 16-21 Mar 1997, Aleppo, Syria. [En]. 55 pp. [Available from: ICARDA, Aleppo, Syria].

- (0108) ICARDA, Aleppo (Syria). 1997. Our favorite recipes from around the world. [En, Fr]. 158 pp.
- (0109) INTAGRES, Rome (Italy). 1997. New perspectives for an ancient species: the chickpea in the economy and diet of mediterranean peoples: proceedings of the Chickpea Conference. CNR/ENEA/ICARDA/IPGRI/INNCR/INTAGRES/INAS. 5 Dec 1995, Rome, Italy. [En]. 102 pp. ISBN: 92-9127-071-7.
- (0110) Khoury, W.; Bayaa, B. (eds.). 1997. Sixth Arab Congress of Plant Protection. Abstract Book. ASPP/CNRSL. 27-31 Oct 1997, Beirut, Lebanon. [Ar, En]. 504 pp. (Only abstracts.) [Available from: Arab Society for Plant Protection, P.O. Box 113-6057, Beirut, Lebanon].
- (0111) Rohrbach, D.D.; Bishaw, Z.; van Gastel, A.J.G. (eds.). 1997. Alternative strategies for smallholder seed supply: proceedings of an international conference on options for strengthening national and regional seed systems in Africa and West Asia. ICARDA/IITA/GTZ. 10-14 Mar 1997, Harare, Zimbabwe. [En]. 281 pp. [Available from: ICRISAT, Patancheru 502 324, Andhra Pradesh, India]. ISBN: 92-9066-380-4.
- (0112) Ryan, J. (ed.). 1997. Accomplishments and future challenges in dryland soil fertility research in the mediterranean area: proceedings of the Soil Fertility Workshop. IMPHOS/ICARDA. 19-23 Nov 1995, Aleppo, Syria. [En]. 369 pp. [Available from: ICARDA, Aleppo, Syria]. ISBN: 92-9127-040-7. Price US\$ 35.00 for HIC and US\$ 20.00 for LIC.
- (0113) Sombatpanit, S.; Zoebisch, M.A.; Sanders, D.W.; Cook, M.G. (eds.). 1997. Soil conservation extension from concepts to adoption. [En]. 488 pp. [Available from: Soil and Water Conservation Society of Thailand, c/o Department of Land Development, Bangkok 10900, Thailand]. ISBN: 1-886106-85-1.
- (0114) Udupa, S.M.; Weigand, F. (eds.). 1997. DNA markers and breeding for resistance to ascochyta blight in chickpea. [En]. 222 pp. ISBN: 92-9127-047-4. Price US\$ 20.00 for HIC and US\$ 8.00 for LIC.
- (0115) van Gastel, A.J.G.; Manners, G.R.; Wadsack, J. (eds.). 1997. Privatization of the seed industry in the West Asia and North Africa region. GTZ/ICARDA. 16-12 Nov 1995, Tunis, Tunisia. [En, Ar]. 133 pp. [Available from: GTZ, Postfach 5180, 65726 Eschborn, Germany]. Price US\$ 20.00 for HIC and US\$ 8.00 for LIC.

Occasional Reports

Research Reports

- (0116) ICARDA, Aleppo (Syria). 1996. An assessment of agricultural research, a status report. Ministry and Water Resources/Agricultural Sector Management Support Project (ASMSP)/Agricultural Research and Extension Authority

(AREA)/ICARDA. [En]. 43 pp. [Available from: Ministry of Agriculture, Dhamar, Yemen].

- (0117) Summerfield, R.J.; Erskine, W.; Roberts, E.H.; Ellis, R.H.; Saxena, M.C.; Adham, Y.; Holly, L.; Hussain, A.; Tahir, M.; Baksh, A.; Keatinge, J.D.H.; Qi, A.; Kusmenoglu, I.; Beniwal, S.P.S. 1996. Flowering in lentil (*Lens culinaris*) - ancient and modern. An international collaborative research project with contributions based on a concept and overall research plan developed at Reading and conjointly at ICARDA, and made possible by the award of grants from the Overseas Development Administration of the UK Foreign and Commonwealth Office (Project Memoranda R 3736 and R 5496 cb). [En]. 65 pp. [Available from: University of Reading, Department of Agriculture, Reading, Berkshire, RG6 2AH, UK].
- (0118) Wellings, C.R. 1996. Study leave at the International Center for Agricultural Research in the Dry Areas: final report. [En]. 56 pp. [Available from: NSW Agriculture, Camden, Australia; ICARDA, Aleppo, Syria].
- (0119) Nordblom, T.L.; Shomo, F. 1997. Food and feed prospects to 2020 in the West Asia/North Africa region. [Ar]. 57 pp. ICARDA Social Science Paper No. 2.
- (0120) Shomo, F.; Nordblom, T. 1997. Future aspects of feed and livestock production to the year 2020 in the Arab countries. Pan National Workshop on the Policies and Methods of Exploitation of Pasture Resources in the Arab World. 12-14 July 1997, Damascus, Syria. [Ar]. 25 pp. [Available from: AOAD, Khartoum, Sudan; Reprint Collection].

Medium-term Plans

- (0121) ICARDA, Aleppo (Syria). 1997. Medium-term plan: 1998-2000. [En]. 40 pp.

Special Study Report

- (0122) Rodriguez, A. 1997. Rural poverty and natural resources in the dry areas: the context of ICARDA's research. Working paper. [En]. 20 pp.

Training Publications

Training Manuals

- (0123) Bernier, C.C.; Hanounik, S.B.; Hussein, M.M.; Mohamed, H.A. 1993. Field manual of common faba bean diseases in the Nile Valley. [Ar]. 40 pp. Information Bulletin No. 3; En 40 pp. Reprinted in 1996.

- (0124) Makkar, H.P.S.; Goodchild, A.V. 1996. Quantification of tannins: a laboratory manual. [En]. 25 pp.
- (0125) Ryan, J.; Garabet, S.; Harmsen, K.; Rashid, A. 1996. A soil and plant analysis manual adapted for the West Asia and North Africa region. [En]. 140 pp.
- (0126) Singh, M.; Ceccarelli, S. 1996. Estimation of heritability of crop traits from variety trial data. [En]. 27 pp. Technical Manual no. 21.
- (0127) van Gastel, A.J.G.; Bishaw, Z.; Griffiths, R.; Hanson, J. 1996. Seed processing audiovisual training module. [En]. 16 pp.
- (0128) Ryan, J.; Masri, S.; Garabet, S.; Diekmann, J.; Habib, H. 1997. Soils of ICARDA's agricultural experiment stations and sites: climate, classification, physical and chemical properties, and land use. [En]. 107 pp.
Price US\$ 20.00 for HIC and US\$ 8.00 for LIC.

Field and Laboratory Guides

- (0129) Linke, K.H.; Sauerborn, J.; Saxena, M.C.; El-Mnoufi, A.A. 1996. *Orobanche* field guide. [Ar]. 44 pp. [Available from: University of Hohenheim, Germany; ICARDA, Aleppo, Syria; University of Alexandria, Faculty of Agriculture, Egypt]. Price US\$ 14.60 for HIC and US\$ 4.90 for LIC.

Directories/Catalogs

Catalogs

- (0130) ICARDA, Aleppo (Syria). 1996. ICARDA publications catalog, 1994-1995 supplement. [En]. 71 pp.
- (0131) ICARDA, Aleppo (Syria). 1996. ICARDA publications price list. [En]. 20 pp.

Annotated Bibliographies

- (0132) CIMMYT, Mexico City (Mexico). 1996. Literature update on wheat, barley, and triticale. [En]. 92 PP. January - February, Vol. 2, No. 1. [Available from: CIMMYT/ICARDA; CIMMYT, Mexico City, A.P. 6-641, 06600 Mexico].
- (0133) CIMMYT, Mexico City (Mexico). 1996. Literature update on wheat, barley, and triticale. [En]. 122 pp. March - April, Vol. 2, No. 2.

- (0134) CIMMYT, Mexico City (Mexico). 1996. Literature update on wheat, barley, and triticale. [En]. 125 pp. May - June, Vol. 2, No. 3.
- (0135) CIMMYT, Mexico City (Mexico). 1996. Literature update on wheat, barley, and triticale. [En]. 113 pp. July - August, Vol. 2, No. 4.
- (0136) CIMMYT, Mexico City (Mexico). 1996. Literature update on wheat, barley, and triticale. [En]. 120 pp. September - October, Vol. 2, No. 5.
- (0137) CIMMYT, Mexico City (Mexico). 1996. Literature update on wheat, barley, and triticale. [En]. 150 pp. November - December, Vol. 2, No. 6.
- (0138) CIMMYT, Mexico City (Mexico). 1997. Literature update on wheat, barley, and triticale. [En]. 178 pp. January – February, Vol. 3, No. 1.
- (0139) CIMMYT, Mexico City (Mexico). 1997. Literature update on wheat, barley, and triticale. [En]. 151 pp. March - April, Vol. 3, No. 2.
- (0140) CIMMYT, Mexico City (Mexico). 1997. Literature update on wheat, barley, and triticale. [En]. 144 pp. May - June, Vol. 3, No. 3.
- (0141) CIMMYT, Mexico City (Mexico). 1997. Literature update on wheat, barley, and triticale. [En]. 133 pp. July - August, Vol. 3, No. 4.
- (0142) CIMMYT, Mexico City (Mexico). 1997. Literature update on wheat, barley, and triticale. [En]. 164 pp. September - October, Vol. 3, No. 5.
- (0143) CIMMYT, Mexico City (Mexico). 1997. Literature update on wheat, barley, and triticale. [En]. 152 pp. November - December Vol. 3, No. 6.

Miscellaneous

Information Brochures

- (0144) El-Beltagy, A. 1996. West Asia and North Africa: regional vision. [En]. 16 pp.
- (0145) ICARDA, Aleppo (Syria). 1996. Landraces in crop breeding. [En]. Pamphlet.
- (0146) ICARDA, Aleppo (Syria). 1996. Biodiversity: a key to food security. [En]. 20 pp. Pamphlet.
- (0147) ICARDA, Aleppo (Syria). 1996. The origin of our daily bread. ICARDA/IPGRI. [En]. Pamphlet.

- (0148) ICARDA, Aleppo (Syria). 1996. Communication, documentation and information services. [En]. Pamphlet.
- (0149) ICARDA, Aleppo (Syria). 1996. The origin of our daily bread. ICARDA/IPGRI. [Ar]. Pamphlet.
- (0150) El-Beltagy, A. 1997. West Asia and North Africa: a regional vision. [En]. 20 pp.
- (0151) ICARDA, Aleppo (Syria). 1997. This is ICARDA. [En]. 18 pp.
- (0152) ICARDA, Aleppo (Syria). 1997. Guide to ICARDA library and information services. [En]. Pamphlet.
- (0153) ICARDA, Aleppo (Syria). 1997. ICARDA computer and biometric services. [En]. Pamphlet.
- (0154) ICARDA, Aleppo (Syria). 1997. Use of geographical information systems and remote sensing. [En]. Pamphlet.
- (0155) ICARDA, Aleppo (Syria). 1997. Improvement of natural resource management and productivity of dryland agriculture in West Asia and North Africa. [En]. Pamphlet.
- (0156) ICARDA, Aleppo (Syria). 1997. Meeting the rangeland challenge. [En]. Pamphlet.
- (0157) ICARDA, Aleppo (Syria). 1997. Meeting the rangeland challenge. [Ar]. Pamphlet.
- (0158) ICARDA, Aleppo (Syria). 1997. Lentil: how West Asia's germplasm helps feed the world. [En]. Pamphlet.
- (0159) ICARDA, Aleppo (Syria). 1997. Lentil: how West Asia's germplasm helps feed the world. [Ar]. Pamphlet.
- (0160) ICARDA, Aleppo (Syria). 1997. The key to soil conservation, a participatory approach from ICARDA. [En]. Pamphlet.
- (0161) ICARDA, Aleppo (Syria). 1997. The key to soil conservation, a participatory approach from ICARDA. [Ar]. Pamphlet.
- (0162) ICARDA, Aleppo (Syria). 1997. Human resources development at ICARDA. [En]. Pamphlet.
- (0163) ICARDA, Aleppo (Syria). 1997. Human resources development at ICARDA. [Ar]. Pamphlet.

- (0164) ICARDA, Aleppo (Syria). 1997. The harvest of two decades, a commemorative volume on ICARDA's 20th anniversary. [En]. Pamphlet.
- (0165) ICARDA, Aleppo (Syria). 1997. Bread the staff of life: how agricultural research produced more wheat for Egypt, Sudan and Syria. [En]. Pamphlet.
- (0166) ICARDA, Aleppo (Syria). 1997. Bread the staff of life: how agricultural research produced more wheat for Egypt, Sudan and Syria. [Ar]. Pamphlet.
- (0167) ICARDA, Aleppo (Syria). 1997. The citadel of Aleppo: a guide for visitors to ICARDA. [En]. Pamphlet.
- (0168) ICARDA, Aleppo (Syria). 1997. Wild wheats: a monograph of *Aegilops* L. and *Amblyopyrum* (Jaub. and Spach) Eig (Poaceae). ICARDA/Wageningen Agricultural University. [En]. Pamphlet.
- (0169) ICARDA, Aleppo (Syria). 1997. Dryland biodiversity conservation through natural resource management. [En]. Pamphlet.
- (0170) ICARDA, Aleppo (Syria). 1997. Recognition of distinguished services: ICARDA 20th anniversary. [En]. Pamphlet.
- (0171) ICARDA, Aleppo (Syria). 1997. Training at ICARDA. [En]. 20 pp. Pamphlet.
- (0172) ICARDA, Aleppo (Syria). 1997. Biotechnology research at ICARDA. [En]. Pamphlet.
- (0173) ICARDA, Aleppo (Syria). 1997. This is ICARDA. [Ar, En, Ru]. 17 pp.
- (0174) Oweis, T. 1997. Supplemental irrigation: a highly efficient water-use practice. [En]. 16 pp.

CGIAR/Donor Information

- (0175) ICARDA, Aleppo (Syria). 1996. Board of trustees presentation, 26-27 April 1995. [En]. 75 pp.
- (0176) ICARDA, Aleppo (Syria). 1996. ICARDA in the news 1995 (a compilation of media stories on ICARDA). [Ar, En]. 96 pp. [Published Annually].
- (0177) ICARDA, Aleppo (Syria). 1996. The United States and ICARDA. Ties that bind, No. 1. [En]. 12 pp.
- (0178) ICARDA, Aleppo (Syria). 1997. Japan and ICARDA. Ties that Bind, No. 5 (Rev.). [En]. 7 pp.
- (0179) ICARDA, Aleppo (Syria). 1997. The Netherlands and ICARDA. Ties that bind, No. 4 (Rev.). [En]. 10 pp.

- (0180) ICARDA, Aleppo (Syria). 1997. ICARDA: serving the highlands. ICARDA's Highland Regional Program. Ties that bind, No. 8. [En]. 13 pp.
- (0181) ICARDA, Aleppo (Syria). 1997. Jordan and ICARDA. Ties that bind, No. 10. [En]. 18 pp.
- (0182) ICARDA, Aleppo (Syria). 1997. Australia and ICARDA. Ties that Bind, No. 3 (Rev). [En]. 9 pp.
- (0183) ICARDA, Aleppo (Syria). 1997. ICARDA and the Arab World. Ties that Bind, No. 6. [En]. 9 pp.
- (0184) ICARDA, Aleppo (Syria). 1997. China and ICARDA. Ties that Bind, No. 9. [En]. 17 pp.
- (0185) ICARDA, Aleppo (Syria). 1997. Italy and ICARDA. Ties that Bind, No. 11. [En]. 9 pp.
- (0186) ICARDA, Aleppo (Syria). 1997. ICARDA in the news 1996 (A compilation of media stories on ICARDA). [Ar, En]. 150 pp. [Published Annually].
- (0187) ICARDA, Aleppo (Syria). 1997. ICARDA and the Arab World. Ties that Bind, No. 1. [Ar]. 12 pp.
- (0188) ICARDA, Aleppo (Syria). 1997. Central Asia and ICARDA. Ties that Bind, No. 12. [En]. 20 pp.
- (0189) ICARDA, Aleppo (Syria). 1997. China and ICARDA. Ties that Bind, No. 9 (Rev.). [En]. 24 pp.
- (0190) ICARDA, Aleppo (Syria). 1997. The United States and ICARDA. Ties that bind, No. 1 (Rev.). [En]. 10 pp.

Articles

Journal Articles

- (0191) Annicchiarico, P.; Pecetti, L. 1994. Morpho-physiological traits as descriptors for discrimination of durum wheat germplasm. *Genetic Resources and Crop Evolution* 41: 47-54.
- (0192) Annicchiarico, P.; Perenzin, M. 1994. Adaptation patterns and definition of macro-environments for selection and recommendation of common-wheat genotypes in Italy. *Plant Breeding* 113: 197-205.

- (0193) Pecetti, L.; Boggini, G.; Gorham, J. 1994. Performance of durum wheat landraces in a mediterranean environment (eastern Sicily). *Euphytica* 80(3): 191-199.
- (0194) Scholz, H.; van Slageren, M.W. 1994. Proposal to conserve *Aegilops caudata* (Gramineae) with a conserved type. *Taxon* 43(2): 293-296.
- (0195) Annicchiarico, P.; Pecetti, L. 1995. Morpho-physiological traits to complement grain yield selection under semi-arid mediterranean conditions in each of the durum wheat types *Mediterraneum typicum* and *syriacum*. *Euphytica* 86: 191-198.
- (0196) Franz, A.; Makkouk, K.M.; Vetten, H.J. 1995. Faba bean necrotic yellows virus naturally infects Phaseolus bean and cowpea in the coastal area of Syria. *Journal of Phytopathology* 143: 319-320.
- (0197) Horn, N.M.; Makkouk, K.M.; Kumari, S.G.; van den Heuvel, J.F.J.M.; Reddy, D.V.R. 1995. Survey of chickpea (*Cicer arietinum* L.) for chickpea stunt disease and associated viruses in Syria, Turkey and Lebanon. *Phytopathologia Mediterranea* 34: 192-198.
- (0198) Katul, L.; Vetten, H.J.; Lesemann, D.-E.; Maiss, E.; Makkouk, K.M. 1995. Diagnostic methods for the detection of faba bean necrotic yellows virus, a circular ssDNA virus. *EPPO Bulletin* 25: 329-336.
- (0199) Kumari, S.G.; Makkouk, K.M. 1995. Variability among twenty lentil genotypes in seed transmission rates and yield loss induced by pea seed-borne mosaic potyvirus infection. *Phytopathologia Mediterranea* 34: 129-132.
- (0200) Makkouk, K.M.; Dafalla, G.; Hussein, M.; Kumari, S.G. 1995. The natural occurrence of chickpea chlorotic dwarf geminivirus in chickpea and faba bean in the Sudan. *Journal of Phytopathology* 143: 465-466.
- (0201) Makkouk, K.M.; Kumari, S.G. 1995. Transmission of broad bean stain comovirus and broad bean mottle bromovirus by weevils in Syria. *Journal of Plant Diseases and Protection* 102(2): 136-139.
- (0202) Makkouk, K.M.; Kumari, S.G. 1995. Screening and selection of faba bean (*Vicia faba* L.) germplasm for resistance to bean yellow mosaic potyvirus. *Journal of Plant Diseases and Protection* 102(5): 461-466.
- (0203) Pecetti, L.; Annicchiarico, P. 1995. Efficacy of a visual assessment for drought tolerance in durum wheat improvement under dryland conditions. *Cereal Research Communications* 23(1-2): 95-101.

- (0204) Pecetti, L.; Annicchiarico, P.; Gorham, J. 1995. Field heterogeneity of the stress affects genotypic response to salinity in durum wheat. *Cereal Research Communications* 23(1-2): 173-177.
- (0205) Abdel-Monem, M.A.S. 1996. Nitrogen utilization by spring wheat *Triticum aestivum*, L. as estimated by ¹⁵N technique under irrigation in Egypt. *Journal of Agricultural Sciences, Mansoura University* 21(7): 2455-2461.
- (0206) Abou-Zeid, S.T.; Abdel Monem, M.; Abd El-Aal, Y.A. 1996. Interaction between Azolla and N fertilizers under the flooded system: greenhouse study. *Journal of Agricultural Sciences, Mansoura University* 21(3): 1203-1209.
- (0207) Al Yasin, F.; Filo, S. 1996. Effects of stocking rate on pastoral production and productivity of ewes. *Bassel Al-Assad Journal for the Sciences of Agricultural Engineering* (1): 63-82. [Ar].
- (0208) Annicchiarico, P.; Mariani, G. 1996. Prediction of adaptability and yield stability of durum wheat genotypes from yield response in normal and artificially drought-stressed conditions. *Field Crops Research* 46: 71-80.
- (0209) Attene, G.; Ceccarelli, S.; Papa, R. 1996. The barley (*Hordeum vulgare* L.) of Sardinia, Italy. *Genetic Resources and Crop Evolution* 43: 385-393.
- (0210) Bejiga, G.; Singh, K.B.; Saxena, M.C. 1996. Evaluation of world collection of kabuli chickpea for resistance to iron-deficiency chlorosis. *Genetic Resources and Crop Evolution* 43: 257-259.
- (0211) Bejiga, G.; Tsegaye, S.; Tullu, A.; Erskine, W. 1996. Quantitative evaluation of Ethiopian landraces of lentil (*Lens culinaris*). *Genetic Resources and Crop Evolution* 43: 293-301.
- (0212) Blümmel, M.; Paul, C.; Goodchild, A.; Becker, K. 1996. Grinding energy and *in vitro* gas technique for the assessment of Syrian barley straws: physical and microbial degradation and voluntary feed intake by sheep. *Journal of Animal Physiology and Animal Nutrition* 76(2-3): 132-140.
- (0213) Ceccarelli, S. 1996. Adaptation to low/high input cultivation. *Euphytica* 92: 203-214.
- (0214) Ceccarelli, S.; Grando, S. 1996. Drought as a challenge for the plant breeder. *Plant Growth Regulation* 20: 149-155.
- (0215) Christiansen, S.; Abd El Moneim, A.M.; Cocks, P.S.; Singh, M. 1996. Seed yield and hardseededness of two amphicarpic pasture legumes (*Vicia sativa* ssp. *amphicarpa* and *Lathyrus ciliolatus*) and two annual medics (*Medicago rigidula* and *M. noeana*). *Journal of Agricultural Science, Cambridge* 126(4): 421-427.

- (0216) Cocks, P.S.; Osman, A.E. 1996. Productivity and botanical composition of communally-owned mediterranean grasslands in the marginal farming areas of north Syria. *Journal of Arid Environments* 33(3): 389-398.
- (0217) Damania, A.B.; Pecetti, L.; Qualset, C.O.; Humeid, B.O. 1996. Diversity and geographic distribution of adaptive traits in *Triticum turgidum* L. (durum group) wheat landraces from Turkey. *Genetic Resources and Crop Evolution* 43: 409-422.
- (0218) Di Vito, M.; Singh, K.B.; Greco, N.; Saxena, M.C. 1996. Sources of resistance to cyst nematode in cultivated and wild *Cicer* species. *Genetic Resources and Crop Evolution* 43: 103-107.
- (0219) El Ahmed, A.; Ghazal, H.; van Leur, J.; Asaad, S. 1996. Effect of environment on seed infection with barley stripe (*Pyrenophora graminea*). *Bassel Al-Assad Journal for the Sciences of Agricultural Engineering* (1): 15-30. [Ar].
- (0220) El Bouhssini, M.; Lhaloui, S.; Amri, A.; Jlibene, M.; Hatchett, J.H.; Nssarellah, N.; Nachit, M. 1996. Wheat genetic control of Hessian fly (Diptera: Cecidomyiidae) in Morocco. *Field Crops Research* 45: 111-114.
- (0221) El-Ghandour, I.A.; Abdel Monem, M.; Mostafa, R.A.K. 1996. Nitrogen fixation and nutrient uptake by two chickpea genotypes cultivated in sandy soils of Egypt. *Folia Microbiologica* 41(3): 267-271.
- (0222) Erskine, W. 1996. Seed-size effects on lentil (*Lens culinaris*) yield potential and adaptation to temperature and rainfall in West Asia. *Journal of Agricultural Science, Cambridge* 126(3): 335-341.
- (0223) Erskine, W.; Bayaa, B. 1996. Yield loss, incidence and inoculum density associated with vascular wilt of lentil. *Phytopathologia Mediterranea* 35: 24-32.
- (0224) Erskine, W.; Bayaa, B.; Saxena, M.C. 1996. Registration of ILL 5588 lentil germplasm resistant to vascular wilt and ascochyta blight. *Crop Science* 36: 1080.
- (0225) Erskine, W.; Saxena, M.C.; Malhotra, R.S. 1996. Registration of ILL 5582 lentil germplasm. *Crop Science* 36: 1079-1080.
- (0226) Franz, A.; Makkouk, K.M.; Katul, L.; Vetten, H.J. 1996. Monoclonal antibodies for the detection and differentiation of faba bean necrotic yellows virus isolates. *Annals of Applied Biology* 128: 255-268.
- (0227) Hamadeh, S.K.; Shomo, F.; Nordblom, T.; Goodchild, A.; Gintzburger, G. 1996. Small ruminant production in Lebanon's Beka'a valley. *Small Ruminant Research* 21: 173-180.

- (0228) Hamdi, A.; Erskine, W. 1996. Reaction of wild species of the genus *Lens* to drought. *Euphytica* 91: 173-179.
- (0229) Hamdi, A.; Kusmenoglu, I.; Erskine, W. 1996. Sources of winter hardiness in wild lentil. *Genetic Resources and Crop Evolution* 43: 63-67.
- (0230) Hayes, P.; Prehm, D.; Vivar, H.E.; Blake, H.; Comeau, A.; Henry, I.; Johnston, M.; Berme, J.; Steffenson, B.; Pierre, C.A. 1996. Multiple disease resistance *loci* and their relationship to agronomic and quality *loci* in a spring barley population. *Journal of Quantitative Trait Loci* 2 n/a.
- (0231) Helal, H.M.; Ragab, A.S.; Abdel Monem, M.; Schnug, E. 1996. Evaluation of root mortality by biochemical analysis. *Communications in Soil Science and Plant Analysis* 27(5-8): 1169-1171.
- (0232) Infantino, A.; Porta-Puglia, A.; Singh, K.B. 1996. Screening wild *Cicer* species for resistance to fusarium wilt. *Plant Disease* 80(1): 42-44.
- (0233) Jost, C.; Sherman, D.; Thomson, E.F. 1996. Kamala (*Mallotus philippinensis*) is ineffective as an anthelmintic against gastro-intestinal nematodes in goats indigenous to Balochistan, Pakistan. *Small Ruminant Research* 20: 147-153.
- (0234) Kawas, H.; Makkouk, K.; Azemeh, M.F. 1996. Alfalfa mosaic virus on chickpea in Syria: purification, antiserum production and host range. *Bassel Al-Assad Journal for the Sciences of Agricultural Engineering* (1): 55-62. [Ar].
- (0235) Keatinge, J.D.H.; Qi, A.; Kusmenoglu, I.; Ellis, R.H.; Summerfield, R.J.; Erskine, W.; Beniwal, S.P.S. 1996. Using genotypic variation in flowering responses to temperature and photoperiod to select lentil for the West Asian highlands. *Agricultural and Forest Meteorology* 78(1-2): 53-65.
- (0236) Khalifi, L.; El Bouhssini, M.; Lhaloui, S. 1996. Effet de la température sur l'expression de la résistance à la mouche de Hesse (diptère: Cecidomyiidae) chez le blé tendre (*Triticum aestivum* L.) [Effect of temperature on the expression of resistance to Hessian fly (Diptera: Cecidomyiidae) in bread wheat (*Triticum aestivum* L.)]. *Al Awamia* 92: 33-42. [Fr].
- (0237) Kumar, J.; Singh, K.B.; Malhotra, R.S.; Miranda, J.H.; Das Gupta, T. 1996. Genotype x environment interaction for seed yield in chickpea. *Indian Journal of Genetics and Plant Breeding* 56(1): 69-78.
- (0238) Kumari, S.G.; Makkouk, K.M. 1996. Inactivation of broad bean stain comovirus in lentil seeds by dry heat treatment. *Phytopathologia Mediterranea* 35: 124-126.

- (0239) Kumari, S.G.; Makkouk, K.M.; Ismail, I.D. 1996. Variation among isolates of two viruses affecting lentils: their effect on yield and seed transmissibility. Arab Journal of Plant Protection 14(2): 81-85.
- (0240) Labdi, M.; Robertson, L.D.; Singh, K.B.; Charrier, A. 1996. Genetic diversity and phylogenetic relationships among the annual *Cicer* species as revealed by isozyme polymorphism. Euphytica 88: 181-188.
- (0241) Mahdi, L.; Bell, C.J.; Ryan, J. 1996. Non-vitreousness or yellow-berry in durum wheat as affected by both depth and date of planting. Cereal Research Communications 24(3): 347-352.
- (0242) Makkar, H.P.S.; Goodchild, A.V.; El-Moneim, A.M.A.; Becker, K. 1996. Cell-constituents, tannin levels by chemical and biological assays and nutritional value of some legume foliage and straws. Journal of the Science of Food and Agriculture 71(1): 129-136.
- (0243) Makkouk, K.M.; Bertschinger, L.; Conti, M.; Bolat, N.; Dusunceli, F. 1996. Barley yellow striate mosaic rhabdovirus naturally infects cereal crops in the Anatolian Plateau of Turkey. Journal of Phytopathology 144: 413-415.
- (0244) Makkouk, K.M.; Kumari, S.G. 1996. Detection of ten viruses by the tissue-blot immunoassay (TBIA). Arab Journal of Plant Protection 14(1): 3-9.
- (0245) Manners, G.R.; Diekmann, J. 1996. Long-eared owl *Asio otus* breeding in north-west Syria. Sandgrouse 18(2): 62.
- (0246) McNeill, A.M.; Pilbeam, C.J.; Harris, H.C.; Swift, R.S. 1996. Seasonal variation in the suitability of different methods for estimating biological fixation by grain legumes under rainfed conditions. Australian Journal of Agricultural Research 47: 1061-1073.
- (0247) Pala, M.; Matar, A.; Mazid, A. 1996. Assessment of the effects of environmental factors on the response of wheat to fertilizer in on-farm trials in a mediterranean type environment. Experimental Agriculture 32(3): 339-349.
- (0248) Pala, M.; Stockle, C.O.; Harris, H.C. 1996. Simulation of durum wheat (*Triticum turgidum* ssp. *durum*) growth under different water and nitrogen regimes in a mediterranean environment using cropsyst. Agricultural Systems 51(2): 147-163.
- (0249) Pecetti, L.; Damania, A.B. 1996. Geographic variation in tetraploid wheat (*Triticum turgidum* ssp. *turgidum* conv. *durum*) landraces from two provinces in Ethiopia. Genetic Resources and Crop Evolution 43: 395-407.

- (0250) Penrose, L.D.J.; Mosaad, M.; Payne, T.S.; Ortiz-Ferrara, G.; Braun, H.J. 1996. Comparison of controls on development in breeding lines from Australian and CIMMYT/ICARDA winter and facultative wheat breeding programs. *Australian Journal of Agricultural Research* 47(1): 1-15.
- (0251) Penrose, L.D.J.; Payne, T.S.; Mosaad, M.G.; Ortiz-Ferrara, G.; Shehadeh, A. 1996. Factors influencing the development of bread wheat plant types to be grown in the 'transitional zone' in northern Syria. *Euphytica* 91: 153-162.
- (0252) Rihawi, S.; Goodchild, A.V.; Treacher, T.T.; Owen, E. 1996. Grazing of barley stubble by sheep in Syria: effect of stocking rate, supplement type and level on apparent intake of stubble and on body weight change. *Annales de Zootechnie* 45(Supplement 1): 82.
- (0253) Robertson, L.D.; Singh, K.B.; Erskine, W.; Abd El Moneim, A.M. 1996. Useful genetic diversity in germplasm collections of food and forage legumes from West Asia and North Africa. *Genetic Resources and Crop Evolution* 43: 447-460.
- (0254) Rodriguez, A. 1996. Sustainability and economic viability of cereals grown under alternative treatments of water-harvesting in highland Balochistan, Pakistan. *Journal of Sustainable Agriculture* 8(1): 47-59.
- (0255) Rodriguez, A.; Manners, G. 1996. What future for agriculture in developing mediterranean countries? *Development and Cooperation (D+C)* 51: 18-21.
- (0256) Rodriguez, A.; Shah, N.A.; Afzal, M.; Mustafa, U.; Ali, I. 1996. Is water-harvesting in valley floors a viable option for increasing cereal production in highland Balochistan, Pakistan? *Experimental Agriculture* 32(3): 305-315.
- (0257) Ryan, J.; Masri, S.; Garabet, S. 1996. Geographical distribution of soil test values in Syria and their relationship with crop response. *Communications in Soil Science and Plant Analysis* 27(5-8): 1579-1593.
- (0258) Schnell, H.; Kunisch, M.; Saxena, M.C.; Sauerborn, J. 1996. Simulation of the seed bank dynamics of *Orobanche crenata* Forsk. in some crop rotations common in northern Syria. *Experimental Agriculture* 32: 395-403.
- (0259) Scholz, U.; Mamluk, O.F.; Vilich, V.; Sikora, R.A. 1996. Untersuchungen zum Auftreten von *Heterodera latipons* und Wurzelpathogenen Pilzen an Gerste in Syrien sowie zur Pathogenität von *Cochliobolus sativus* (anam. *Bipolaris sorokiniana*) [Investigations on occurrence of *Heterodera latipons* and root-pathogenic fungi on barley and pathogenicity of *Cochliobolus sativus* (anam. *Bipolaris sorokiniana*)]. *Mitteilungen aus der Biologischen Bundesanstalt für Land- und Forstwirtschaft Berlin-Dahlem* 321: 629. [De].

- (0260) Singh, K.B.; Di Vito, M.; Greco, N.; Saxena, M.C. 1996. Registration of ILWC 292, a chickpea cyst nematode-resistant germplasm of *Cicer reticulatum* Ladiz. *Crop Science* 36: 1421-1422.
- (0261) Singh, K.B.; Jimenez-Diaz, R.M. 1996. Registration of six fusarium wilt-resistant chickpea germplasm lines. *Crop Science* 36(3): 817.
- (0262) Singh, K.B.; Omar, M.; Saxena, M.C.; Johansen, C. 1996. Registration of FLIP 87-59C, a drought-tolerant chickpea germplasm line. *Crop Science* 36(2): 472.
- (0263) Singh, K.B.; Reddy, M.V. 1996. Improving chickpea yield by incorporating resistance to ascochyta blight. *Theoretical and Applied Genetics* 92: 509-515.
- (0264) Singh, K.B.; Weigand, S. 1996. Registration of three leafminer-resistant chickpea germplasm lines: ILC 3800, ILC 5901, and ILC 7738. *Crop Science* 36(2): 472.
- (0265) Singh, M.; Saxena, M.C.; Abu-Irmaileh, B.E.; Al-Thahabi, S.A.; Haddad, N.I. 1996. Estimation of critical period of weed control. *Weed Science* 44: 273-283.
- (0266) Singh, M.; Yau, S.K.; Hamblin, J.; Porceddu, E. 1996. Inter-site transferability of crop varieties: another approach for analyzing multi-locational varietal trials. *Euphytica* 89(3): 305-311.
- (0267) Soliman, S.M.; Abdel Monem, M.A.S. 1996. Effect of method of N-application and modified urea on N-15 recovery by rice. *Fertilizer Research* 43: 143-148.
- (0268) van Den Boogaard, R.; Veneklaas, E.J.; Peacock, J.M.; Lambers, H. 1996. Yield and water use of wheat (*Triticum aestivum*) in a Mediterranean environment: cultivar differences and sowing density effects. *Plant and Soil* 181: 251-262.
- (0269) van Slageren, M.W.; Manners, G.R. 1996. Response to Dong Geng: correct scientific names. *European Science Editing* 57: 12-13.
- (0270) Araus, J.L.; Bort, J.; Ceccarelli, S.; Grando, S. 1997. Relationship between leaf structure and carbon isotope discrimination in field grown barley. *Plant Physiology and Biochemistry* 35(7): 533-541.
- (270a) Araus, J.L.; Amaro, T.; Zuhair, Y.; Nachit, M.M. 1997. Effect of leaf structure and water status on carbon isotope discrimination in field-grown durum wheat. *Plant, Cell and Environment* 20: 1484-1494.
- (0271) Azzam, A.; Azzam, S.; Lhaloui, S.; Amri, A.; El Bouhssini, M.; Moussaoui, M. 1997. Economic returns to research in Hessian fly (Diptera: Cecidomyiidae) resistant bread-wheat varieties in Morocco. *Journal of Economic Entomology* 90(1): 1-5.

- (0272) Bayaa, B.; Erskine, W.; Singh, M. 1997. Screening lentil for resistance to fusarium wilt: methodology and sources of resistance. *Euphytica* 98(1-2): 69-74.
- (0273) Damania, A.B.; Pecetti, L.; Qualset, C.O.; Humeid, B.O. 1997. Diversity and geographic distribution of stem solidness and environmental stress tolerance in a collection of durum wheat landraces from Turkey. *Genetic Resources and Crop Evolution* 44: 101-108.
- (0274) El Bouhssini, M.; Benlhabib, O.; Bentika, A.; Sharma, H.C.; Lhaloui, S. 1997. Sources of resistance in *Triticum* and *Aegilops* species to Hessian fly (Diptera: Cecidomyiide) in Morocco. *Arab Journal of Plant Protection* 15(2): 126-128.
- (0275) Erskine, W. 1997. Lessons for breeders from land races of lentil. *Euphytica* 93: 107-112.
- (0276) Eujayl, I.; Baum, M.; Erskine, W. 1997. Current status of genetic mapping in lentils. *Grain Legumes* No. 18: 19.
- (0277) Eujayl, I.; Baum, M.; Erskine, W.; Pehu, E.; Muehlbauer, F.J. 1997. The use of RAPD markers for lentil genetic mapping and the evaluation of distorted F₂ segregation. *Euphytica* 96: 405-412.
- (0278) Franz, A.; Makkouk, K.M.; Vetten, H.J. 1997. Host range of faba bean necrotic yellows virus and potential yield loss in infected faba bean. *Phytopathologia Mediterranea* 36: 94-103.
- (0279) Giangaspero, M.; Vanopdenbosch, E.; Nishikawa, H.; Tabbaa, D. 1997. Prevalence of antibodies against respiratory viruses (Parainfluenza virus type 3, respiratory syncytial virus, Reovirus and Adenovirus) in relation to productivity in Syrian Awassi sheep. *Tropical Animal Health and Production* 83(2): 91.
- (0280) Goodchild, A.V. 1997. Effects of rainfall and temperature on the feeding value of barley straw in a semi-arid mediterranean environment. *Journal of Agricultural Science, Cambridge* 129: 353-366.
- (0281) Lakew, B.; Semeane, Y.; Alemayehu, F.; Gebre, H.; Grando, S.; van Leur, J.A.G.; Ceccarelli, S. 1997. Exploiting the diversity of barley landraces in Ethiopia. *Genetic Resources and Crop Evolution* 44: 109-116.
- (0282) Makkouk, K.M.; Damsteegt, V.; Johnstone, G.R.; Katul, L.; Lesemann, D.E.; Kumari, S.G. 1997. Identification and some properties of soybean dwarf luteovirus affecting lentil in Syria. *Phytopathologia Mediterranea* 36: 135-144.

- (0283) Malhotra, R.S.; Bejiga, G.; Singh, K.B. 1997. Inheritance of seed size in chickpea. *Journal of Genetics and Breeding* 51(1): 45-50.
- (0284) Malhotra, R.S.; Singh, K.B.; Saxena, M.C. 1997. Effect of irrigation on winter-sown chickpea in a mediterranean environment. *Journal of Agronomy and Crop Science* 178: 237-243.
- (0285) Maliha, N.N.; Varma, S.; Nachit, M. 1997. Durum wheat information management. *Quarterly Bulletin of the International Association of Agricultural Information Specialists* 42(1): 16-20.
- (0286) Mamluk, O.F.; Cetin, L.; Braun, H.-J.; Bolat, N.; Bertschinger, L.; Makkouk, K.M.; Yildirim, A.F.; Saari, E.E.; Zencirci, N.; Albustan, S.; Cali, S.; Beniwal, S.P.S.; Dusunceli, F. 1997. Current status of wheat and barley diseases in the central Anatolian Plateau of Turkey. *Phytopathologia Mediterranea* 36(3): 167-181.
- (0287) Manschadi, A.M.; Sauerborn, J.; Kroschel, J.; Saxena, M.C. 1997. Effect of plant density on grain yield, root-length density and *Orobanche crenata* infestation in two faba bean genotypes. *Weed Research* 37: 39-49.
- (0288) Mohamed, E.S.; Nourai, A.H.; Mohamed, G.E.; Mohamed, M.I.; Saxena, M.C. 1997. Weeds and weed management in irrigated lentil in northern Sudan. *Weed Research* 37: 211-218.
- (0289) Nassan, H.M.; Makkouk, K.M.; Haj Kassem, A.A. 1997. Detection of soybean dwarf luteovirus (SbDV) in some food legume crops by using different ELISA variants. *Arab Journal of Plant Protection* 15(2): 74-79.
- (0290) Osman, A.E.; Ghassali, F. 1997. Effects of storage conditions and presence of fruiting bracts on the germination of *Atriplex halimus* and *Salsola vermiculata*. *Experimental Agriculture* 33: 149-155.
- (0291) Pala, M. 1997. Production and improvement of crops for drylands (U.S. Gupta, ed.): Book review. *Journal of Agricultural Science, Cambridge* 129: 243-248.
- (0292) Pilbeam, C.J.; McNeill, A.M.; Harris, H.C.; Swift, R.S. 1997. Effect of fertilizer rate and form on the recovery of ¹⁵N-labelled fertilizer applied to wheat in Syria. *Journal of Agricultural Science, Cambridge* 128: 415-424.
- (0293) Pilbeam, C.J.; Wood, M.; Jones, M.J. 1997. Proportion of total nitrogen and fixed nitrogen in shoots of lentil and chickpea grown in a mediterranean-type environment. *Experimental Agriculture* 33: 139-148.
- (0294) Robertson, L.D.; Ocampo, B.; Singh, K.B. 1997. Morphological variation in wild annual *Cicer* species in comparison to the cultigen. *Euphytica* 95(3): 309-319.

- (0295) Ryan, J.; Nsarellah, N.; Mergoum, M. 1997. Nitrogen fertilization of durum wheat cultivars in the rainfed area of Morocco: biomass, yield, and quality considerations. *Cereal Research Communications* 25(1): 85-90.
- (0296) Singh, K.B. 1997. Chickpea (*Cicer arietinum* L.). *Field Crops Research* 53(1-3): 161-170.
- (0297) Singh, K.B.; Malhotra, R.S.; Saxena, M.C. 1997. Registration of FLIP 91-178C, FLIP 93-53C, and FLIP 93-98C: chickpea germplasm lines resistant to ascochyta blight, fusarium wilt, and cold. *Crop Science* 37: 627.
- (0298) Singh, K.B.; Malhotra, R.S.; Saxena, M.C.; Bejiga, G. 1997. Superiority of winter sowing over traditional spring sowing of chickpea in the Mediterranean region. *Agronomy Journal* 89(1): 112-118.
- (0299) Singh, K.B.; Ocampo, B. 1997. Exploitation of wild *Cicer* species for yield improvement in chickpea. *Theoretical and Applied Genetics* 95: 418-423.
- (0300) Singh, K.B.; Omar, M.; Saxena, M.C.; Johansen, C. 1997. Screening for drought resistance in spring chickpea in the Mediterranean region. *Journal of Agronomy and Crop Science* 178: 227-235.
- (0301) Singh, K.B.; Weigand, S.; Saxena, M.C. 1997. Registration of ILWC 39 and ILWC 181: *Cicer echinospermum* germplasm lines with resistance to *Callosobruchus chinensis* (L.). *Crop Science* 37: 628.
- (0302) Singh, M.; Ceccarelli, S.; Grando, S. 1997. Precision of the genotypic correlation estimated from variety trials conducted in incomplete block designs. *Theoretical and Applied Genetics* : 1044-1048.
- (0303) Singh, M.; Christiansen, S.; Chakraborty, B.K. 1997. An assessment of the effect of covariances of plot errors over time on the precision of means of rotations with wheat. *Experimental Agriculture* 33: 469-475.
- (0304) Singh, M.; Jones, M. 1997. Estimating time to detect time trends in continuous cropping. *Journal of Applied Statistics* 24(6): 659-669.
- (0305) Takahata, S.; Osman, A.E. 1997. Vegetational interpretation of remotely sensed images in Syria. *JIRCAS Journal No. 5*: 13-22.
- (305a) Teulat, B.; Rekika, D.; Nachit, M.M.; Monneveux, P. 1997. Comparative osmotic adjustments in barley and tetraploid wheats. *Plant Breeding* 116: 519-523.
- (0306) Vale, G.; Toubia-Rahme, H.; Delogu, G.; Faccioli, P.; Terzi, V.; Pecchioni, N. 1997. Molecular mapping of genes conferring resistance to *Pyrenophora graminea*. *Journal of Applied Genetics* 38B: 7-15.
- (0307) van Leur, J.A.G.; Alamdar, M.Z.; Khawatmi, S. 1997. Effect of common root rot (*Cochliobolus sativus*) on yields of barley under experimental conditions in northern Syria. *Australian Journal of Agricultural Research* 48: 351-357.

- (0308) White, P.F.; Treacher, T.T.; Termanini, A. 1997. Nitrogen cycling in semi-arid Mediterranean zones: removal and return of nitrogen to pastures by grazing sheep. *Australian Journal of Agricultural Research* 48(3): 317-322.
- (0309) White, P.F.; Treacher, T.T.; Termanini, A.; Rihawi, S. 1997. The accuracy of using the ratio of nitrogen to acid detergent fibre in faeces to partition nitrogen between faeces and urine in total excreta collections from ewes. *Grass and Forage Science* 52(1): 122-124.
- (0310) Yau, S.K. 1997. Efficiency of alpha-lattice designs in international variety yield trials of barley and wheat. *Journal of Agricultural Science, Cambridge* 128(5-9): 5-9.
- (0311) Yau, S.K.; Nachit, M.; Ryan, J. 1997. Variation in growth, development, and yield of durum wheat in response to high soil boron. II. Differences between genotypes. *Australian Journal of Agricultural Research* 48: 951-957.
- (0312) Yau, S.K.; Saxena, M.C. 1997. Variation in growth, development, and yield of durum wheat in response to high soil boron I. Average effects. *Australian Journal of Agricultural Research* 48: 945-949.

Newsletter Articles

- (0313) Erskine, W.; Chandra, S.; Chaudhry, M.; Malik, I.A.; Sarker, A.; Sharma, B.; Tufail, M.; Tyagi, M.C. 1996. A bottleneck in lentil: widening the genetic base in South Asia. *Diversity* 12(3): 64.
- (0314) Robertson, L.D.; Valkoun, J.; Konopka, J. 1996. Collaborative efforts of ICARDA and the countries in South Asia aim toward conservation of genetic resources. *Diversity* 12(3): 62-63.
- (0315) Singh, K.B.; Robertson, L.D. 1996. New resistance genes provide key to increased productivity of South Asia's most important pulse crop. *Diversity* 12(3): 63-64.
- (0316) Braun, H.-J.; Morgounov, A.I.; Ketata, H.; Beniwal, S.P.S.; Cetin, L.; Ekiz, H.; Eser, V.; Keser, M.; Kanbertay, M.; Zencirci, N. 1997. Current activities of the International Winter Wheat Improvement Program. *Annual Wheat Newsletter* 43: 220.
- (0317) Erskine, W.; Malhotra, R.S. 1997. Integration of winter-sown chickpea and lentil into cropping systems in the Middle East. *Grain Legumes* No. 16: 20.
- (317a) Makkouk, K.M.; Erskine, W.; Attar, N. 1997. Detection of seed-borne viruses in lentil mother plants as compared to harvested seeds. *Lens Newsletter* 24(1/2): 49-51. (Arabic summary.)
- (0318) Tahir, M.; Ketata, H. 1997. Performance of alloplasmic wheat lines in a moisture stress environment. *Wheat Information Service* (84): 19-24.

- (0319) Yau, S.K.; Valkoun, J. 1997. Screening durum wheat accessions for boron-toxicity tolerance. *Annual Wheat Newsletter* 43: 219-220.

Book Chapters and Conference Papers

- (0320) Barnett, O.W.; Adam, G.; Brunt, A.A.; Dijkstra, J.; Dougherty, W.G.; Edwardson, J.R.; Goldbach, R.; Hammond, J.; Hill, J.H.; Jordan, R.L.; Kashiwazaki, S.; Makkouk, K.M.; Morales, F.J.; Ohki, S.T.; Purcifull, D.; Shikata, E.; Shukla, D.D.; Uyeda, I. 1995. Family potyviridae. Pages 348-358 *in* *Virus Taxonomy, Classification and Nomenclature of Viruses, Sixth Report of the International Committee on Taxonomy of Viruses* (F.A. Murphy, C.M. Fauquet, D.H.L. Bishop, S.A. Ghabrial, A.W. Jarvis, G.P. Martelli, M.A. Mayo and M.D. Summers, eds.). [Available from: Springer-Verlag-AT, Wien (AT), Molkerbastei 5, Postfach 367, A-1010, Austria].
- (0321) Makkouk, K.M. 1995. Identification and control of economically important virus diseases in West Asia and North Africa with special emphasis on those of relevance to Lebanese agriculture. Pages 25-35 *in* *Plant Protection, Application and Current Status, Research and Perspectives: Proceedings of the First National Symposium on Agricultural Research, The National Council for Scientific Research/The Arab Plant Protection Society/The Order of Engineers, 18 Oct 1995, Beirut, Lebanon*. [Available from: National Council for Scientific Research, P.O. Box 8281-11, Beirut, Lebanon].
- (0322) Makkouk, K.M.; Katul, L.; Kumari, S.G.; Naasan, H. 1995. Preliminary identification of a distinct luteovirus affecting lentils in Syria. Abstract no. 635 *in* *Abstracts of Presentations, 1995 APS Annual Meeting, APS, 12-16 Aug 1995, Pittsburgh, Pennsylvania, USA*. [Available from: American Phytopathological Society (APS), 3340 Pilot Knob Road, St Paul, MN 55121-2097, USA].
- (0323) Akem, C. 1996. Ascochyta blight of chickpea: present status and future priorities. Pages 97-105 *in* *Proceedings du Symposium Regional sur les Maladies des Céréales et des Légumineuses Alimentaires (Projet Maghrebin PNUD/RAB/91/007), 11-14 Nov 1996, Rabat, Morocco* (B. Ezzahiri, A. Al Yamani, A. Farih and M. El Yamani, eds.). [Available from: INRA, Avenue de la Victoire, B.P. 415, Rabat R.P., Morocco].
- (0324) Al Hakimi, A.; Monneveux, P.; Nachit, M.M. 1996. Direct and indirect selection for drought tolerance in alien tetraploid wheat x durum wheat crosses. Pages 172-173 *in* *Abstracts: 5th International Wheat Conference, Ministry of Agriculture and Rural Affairs, Turkey/CIMMYT/ICARDA/Oregon State University/USAID/GTZ, 10-14 June 1996, Ankara, Turkey*. (Abstract.). [Available from: Ministry of Agriculture and Rural Affairs, Milli Mudafaca Caddesi, No. 20 Kiziley, Ankara 06171, Turkey].

- (0325) Amine, M.; Boulif, M.; Beniwal, S.P.S. 1996. Chickpea in Morocco. Pages 101-110 *in* Adaptation of Chickpea in the West Asia and North Africa Region: Proceedings of a Workshop on Adaptation of Chickpea in the West Asia and North Africa Region, ICRISAT/ICARDA, November 1992, Aleppo, Syria (N.P. Saxena, M.C. Saxena, C. Johansen, S.M. Virmani and H. Harris, eds.). [Available from: ICRISAT, Patancheru, Andhra Pradesh 502 324, India].
- (0326) Bailey, E.; Aw-Hassan, A. 1996. Multidisciplinary approach for resource management research in dry areas: a challenge. Page 82 *in* International Conference on Land Degradation: Programme Abstracts and Excursions, 10-14 June 1996, Adana, Turkey. (Abstract.)
- (0327) Baum, M.; Sayed, H.; Araus, J.L.; Grando, S.; Ceccarelli, S.; Backes, G.; Mohler, G.; Jahoor, A.; Fischbeck, G. 1996. QTL analysis of agronomic important characters for dryland conditions in barley by using molecular markers. Pages 241-243 *in* the 5th International Oat Conference and 7th International Barley Genetics Symposium: Poster Sessions Vol. 2: Proceedings of a Joint Conference, Quaker/Brewing Malting Barley Research Institute, 30 July - 6 Aug 1996, University of Saskatchewan, Saskatoon, Saskatchewan, Canada (A. Slinkard, G. Scoles and B. Rossnagel, eds.). [Available from: Brewing Malting Barley Research Institute].
- (0328) Bayaner, A.; Uzunlu, V.; Tutwiler, R. 1996. Assessing the potential acceptance of improved varieties in the Eastern margin of Central Anatolia. Page 174 *in* Abstracts: 5th International Wheat Conference, Ministry of Agriculture and Rural Affairs, Turkey/CIMMYT/ICARDA/Oregon State University/USAID/GTZ, 10-14 June 1996, Ankara, Turkey. (Abstract.). [Available from: Ministry of Agriculture and Rural Affairs, Milli Mudafaca Caddesi, No. 20 Kiziley, Ankara 06171, Turkey].
- (0329) Beck, D.P.; Rupela, O.P. 1996. Symbiotic nitrogen fixation by chickpea in WANA and SAT. Pages 207-216 *in* Adaptation of Chickpea in the West Asia and North Africa Region: Proceedings of a Workshop on Adaptation of Chickpea in the West Asia and North Africa Region, ICRISAT/ICARDA, November 1992, Aleppo, Syria (N.P. Saxena, M.C. Saxena, C. Johansen, S.M. Virmani and H. Harris, eds.). [Available from: ICRISAT, Patancheru, Andhra Pradesh 502 324, India].
- (0330) Beniwal, S.P.S.; Haware, M.P.; Reddy, M.V. 1996. Chickpea diseases: distribution, importance, and control strategies. Pages 189-198 *in* Adaptation of Chickpea in the West Asia and North Africa Region: Proceedings of a Workshop on Adaptation of Chickpea in the West Asia and North Africa Region, ICRISAT/ICARDA, November 1992, Aleppo, Syria (N.P. Saxena, M.C. Saxena, C. Johansen, S.M. Virmani and H. Harris, eds.). [Available from: ICRISAT, Patancheru, Andhra Pradesh 502 324, India].

- (0331) Bishaw, Z.; van Gastel, A.J.G. 1996. ICARDA's human resource development approach for the seed sector. Pages 64-77 in *Organisation and Management of National Seed Programmes: Proceedings of a Follow-up Seminar/Workshop*, DSE/ICARDA, 12-24 Nov 1994, Aleppo, Syria (H. Gast, ed.). [Available from: DSE, Wellinger St. 52, Feldafing 82336, Germany].
- (0332) Bishaw, Z.; van Gastel, A.J.G. 1996. Improvement of seed programs in West Asia and North Africa. Pages 258-265 in *Proceedings of the Second Egyptian National Seed Conference*, CASC/CASP, 10-14 Dec 1995, Cairo, Egypt. [Available from: Ministry of Agriculture and Land Reclamation, Cairo, Egypt].
- (0333) Bishaw, Z.; van Gastel, A.J.G. 1996. Seed cleaning. Pages 279-286 in *Seed Science and Technology: Proceedings of a Train-the-Trainers Workshop*, Med-campus Programme (EEC)/ICARDA, 24 Apr - 9 May 1993, Amman, Jordan (A.J.G. van Gastel, M.A. Pagnotta and E. Porceddu, eds.).
- (0334) Bishaw, Z.; van Gastel, A.J.G. 1996. Components of seed quality. Pages 289-298 in *Seed Science and Technology: Proceedings of a Train-the-Trainers Workshop*, Med-campus Programme (EEC)/ICARDA, 24 Apr - 9 May 1993, Amman, Jordan (A.J.G. van Gastel, M.A. Pagnotta and E. Porceddu, eds.).
- (0335) Booth, R.H. 1996. ICARDA's international cooperation network. Pages 78-82 in *Organisation and Management of National Seed Programmes: Proceedings of a Follow-up Seminar/Workshop*, DSE/ICARDA, 12-24 Nov 1994, Aleppo, Syria (H. Gast, ed.). [Available from: DSE, Wellinger St. 52, Feldafing 82336, Germany].
- (0336) Braun, H.-J.; Morgounov, A.; Ekiz, H.; Keser, M.; Zencirci, N.; Eser, V.; Ketata, H.; Marcucci, G. 1996. Breeding priorities of winter wheat programs. Page 457 in *Abstracts: 5th International Wheat Conference*, Ministry of Agriculture and Rural Affairs, Turkey/CIMMYT/ICARDA/Oregon State University/USAID/GTZ, 10-14 June 1996, Ankara, Turkey. (Abstract.). [Available from: Ministry of Agriculture and Rural Affairs, Milli Mudafaca Caddesi, No. 20 Kiziley, Ankara 06171, Turkey].
- (0337) Ceccarelli, S. 1996. Positive interpretation of genotype by environment interactions in relation to sustainability and biodiversity. Pages 467-486 in *Plant Adaptation and Crop Improvement* (M. Cooper and G.L. Hammer, eds.). [Available from: CAB International, Wallingford, Oxon OX10 8DE, UK].
- (0338) Ceccarelli, S.; Grando, S. 1996. Importance of specific adaptation in breeding for marginal conditions. Pages 34-58 in *Barley Research in Ethiopia: Past Work and Future Prospects: Proceedings of the First Barley Research Review Workshop*, Institute of Agricultural Research/ICARDA, 16-19 Oct 1993, Addis Abeba, Ethiopia (H. Gebre and J. van Leur, eds.). [Available from: Institute of Agricultural Research, P.O. Box 2003, Addis Abeba, Ethiopia].

- (0339) Ceccarelli, S.; Grando, S.; Booth, R.H. 1996. Farmers and crop breeders as partners: international breeding programmes and resource-poor farmers: crop improvement in difficult environments. Pages 99-116 *in* Participatory Plant Breeding: Proceedings of a Workshop on Participatory Plant Breeding, IDRC/FAO/CPRO-DLO-CGN/IPGRI, 26-29 July 1995, Wageningen, The Netherlands (P. Eyzaguirre and M. Iwanaga, eds.). [Available from: IPGRI, Via delle sette Chiese 142, 00145 Rome, Italy].
- (0340) Ceccarelli, S.; Grando, S. 1996. *Hordeum vulgare* L. Pages 99-102 *in* Plant Resources of South-East Asia, Cereals (G.J.H. Grubben and S. Partohardjono, eds.). No. 10. [Available from: Proses Foundation, P.O. Box 341, 6700 AH Wageningen, The Netherlands; Backhuys Publishers, Leiden].
- (0341) Ceccarelli, S.; Tahir, M.; Grando, S. 1996. Breeding for low-input environments. Pages 253-259 *in* the 5th International Oat Conference and 7th International Barley Genetics Symposium: Poster Sessions Vol. 2: Proceedings of a Joint Conference, Quaker/Brewing Malting Barley Research Institute, 30 July - 6 Aug 1996, University of Saskatchewan, Saskatoon, Saskatchewan, Canada (A. Slinkard, G. Scoles and B. Rosnagel, eds.). [En]. [Available from: Brewing Malting Barley Research Institute].
- (0342) Diekmann, M. 1996. Seed-borne diseases in seed production. Pages 259-268 *in* Seed Science and Technology: Proceedings of a Train-the-Trainers Workshop, Med-campus Programme (EEC)/ICARDA, 24 Apr - 9 May 1993, Amman, Jordan (A.J.G. van Gastel, M.A. Pagnotta and E. Porceddu, eds.).
- (0343) Diekmann, M. 1996. Storage pests and their control. Pages 269-276 *in* Seed Science and Technology: Proceedings of a Train-the-Trainers Workshop, Med-campus Programme (EEC)/ICARDA, 24 Apr - 9 May 1993, Amman, Jordan (A.J.G. van Gastel, M.A. Pagnotta and E. Porceddu, eds.).
- (0344) Dusunceli, F.; Cetin, L.; Albustan, S.; Beniwal, S.P.S. 1996. Occurrence and impact of wheat stripe rust (*Puccinia striiformis*) in Turkey in 1994/95 crop season. Page 309 *in* Cereal Rusts and Powdery Mildews Conference: Proceedings of the 9th European and Mediterranean Cereal Rust Foundation, 2-6 Sept 1996, Lunteren, Netherlands (G.H.J., Kema, R.E. Niks and R.A. Daamen, eds.). [Available from: European and Mediterranean Cereal Rust Foundation, Wageningen, The Netherlands].
- (0345) Duwayri, M.; Al-Lozi, S.; van Gastel, A.J.G. 1996. Seed production of cereals. Pages 189-194 *in* Seed Science and Technology: Proceedings of a Train-the-Trainers Workshop, Med-campus Programme (EEC)/ICARDA, 24 Apr - 9 May 1993, Amman, Jordan (A.J.G. van Gastel, M.A. Pagnotta and E. Porceddu, eds.).
- (0346) Einfeldt, C.H.P.; Ceccarelli, S.; Gland-Zwenger, A.; Geiger, H.H. 1996. Role of heterozygosity and heterogeneity as tools to improve performance of barley

under drought stress. Pages 478-481 *in* the 5th International Oat Conference and 7th International Barley Genetics Symposium: Poster Sessions Vol. 2: Proceedings of a Joint Conference, Quaker/Brewing Malting Barley Research Institute, 30 July - 6 Aug 1996, University of Saskatchewan, Saskatoon, Saskatchewan, Canada (A. Slinkard, G. Scoles and B. Rosnagel, eds.). [Available from: Brewing Malting Barley Research Institute; Poster No. 478].

- (0347) El-Ahmed, A. 1996. ICARDA's seed health policy in seed production. Pages 140-149 *in* Organisation and Management of National Seed Programmes: Proceedings of a Follow-up Seminar/Workshop, DSE/ICARDA, 12-24 Nov 1994, Aleppo, Syria (H. Gast, ed.). [Available from: DSE, Wellinger St. 52, Feldafing 82336, Germany].
- (0348) El-Beltagy, A. 1996. Reversing desertification trends in West Asia and North Africa. Pages 1-2 *in* The International Conference on Desert Development in the Arab Gulf Countries (Towards Sustainable Development in the 21st Century), Abstracts, KISR/KFAS/EPC/KFH/PAAC/UNDP/GCC, 23-26 Mar 1996, State of Kuwait. (Abstract.).
- (0349) El-Hadi, M.; Beniwal, S.P.S.; Kraft, J.M. 1996. Incidence of fusarium wilt of chickpea in Morocco. Pages 37-42 *in* Proceedings du Symposium Regional sur les Maladies des Céréales et des Légumineuses Alimentaires (Projet Maghrebien PNUD/RAB/91/007), 11-14 Nov 1996, Rabat, Morocco (B. Ezzahiri, A. Al Yamani, A. Farih and M. El Yamani, eds.). [Available from: INRA, Avenue de la Victoire, B.P. 415, Rabat R.P., Morocco].
- (0350) El-Sebae Ahmed, S. 1996. Training at ICARDA: philosophy, approaches and major achievements. Pages 61-63 *in* Organisation and Management of National Seed Programmes: Proceedings of a Follow-up Seminar/Workshop, DSE/ICARDA, 12-24 Nov 1994, Aleppo, Syria (H. Gast, ed.). [Available from: DSE, Wellinger St. 52, Feldafing 82336, Germany].
- (0351) Erskine, W.; Malhotra, R.S. 1996. Progress in breeding, selecting and delivering production packages for winter sowing chickpea and lentil. Pages 43-50 *in* Problems and Prospects for Winter Sowing of Grain Legumes in Europe: Proceedings of AEP Workshop, AEP, 3-4 Dec 1996, Dijon, France. [Available from: INRA, Dijon, France].
- (0352) Erskine, W.; Saxena, M.C. 1996. Opportunities for collaboration between ICARDA and CLAN/ICRISAT. Pages 61-63 *in* CLAN Collaborative Research in Asia Needs and Opportunities. [Available from: ICRISAT, Patancheru, Andhra Pradesh 502 324, India].
- (0353) Goodchild, A.; Nordblom, T.; Shomo, F.; Hamadeh, S.; Wachholtz, R. 1996. Using feed calendars to interface feeds with the needs of small ruminants in

Syria and Lebanon. Pages 152-160 *in* Livestock Farming Systems: Research Development, Socio-economics and the Land Manager (J.B. Dent, M.J. Gregor and A.R. Sibbald, eds.). Wageningen Press, Wageningen, The Netherlands. EAAP Publication No. 79.

- (0354) Grando, S.; Ceccarelli, S. 1996. Barley mixtures to increase stability of production under stress conditions. Pages 628-630 *in* the 5th International Oat Conference and 7th International Barley Genetics Symposium: Poster Sessions Vol. 2: Proceedings of a Joint Conference, Quaker/Brewing Malting Barley Research Institute, 30 July - 6 Aug 1996, University of Saskatchewan, Saskatoon, Saskatchewan, Canada (A. Slinkard, G. Scoles and B. Rossnagel, eds.). Poster No. 279. [Available from: Brewing Malting Barley Research Institute].
- (0355) Haddad, N.I. 1996. Seed production of grain legumes. Pages 195-200 *in* Seed Science and Technology: Proceedings of a Train-the-Trainers Workshop, Med-campus Programme (EEC)/ICARDA, 24 Apr - 9 May 1993, Amman, Jordan (A.J.G. van Gastel, M.A. Pagnotta and E. Porceddu, eds.).
- (0356) Hakim, M.S.; Mamluk, O.F. 1996. Virulences of wheat yellow rust pathogen in Syria and Lebanon. Page 141 *in* Cereal Rusts and Powdery Mildews Conference: Proceedings of the 9th European and Mediterranean Cereal Rust Foundation, 2-6 Sept 1996, Lunteren, The Netherlands (G.H.J., Kema, R.E. Niks and R.A. Daamen, eds.). [Available from: European and Mediterranean Cereal Rust Foundation, Wageningen, The Netherlands].
- (0357) Hamadeh, S.K.; Goodchild, A.; Shomo, F.; Nordblom, T.L.; Gintzburger, G. 1996. The role of native pasture grazing in relation to other feed sources for sheep and goat flocks in the Beqa'a Valley of Lebanon. Pages 201-202 *in* Rangelands in a Sustainable Biosphere: Proceedings of the Fifth International Rangeland Congress, Vol. 1, Contributed Presentations, 23-28 July, Salt Lake City, Utah, USA (N.E. West, ed.). [Available from: Society for Range Management 1839 York Street Denver, Colorado 80206, USA].
- (0358) Humeid, B. 1996. Joint Jordan-ICARDA activities in plant genetic resources. Pages 251-259 *in* Plant Genetic Resources of Jordan: Proceedings of a National Seminar, 2-4 Aug 1994, Amman, Jordan (A.A. Jaradat, ed.). [Available from: IPGRI, Regional Office for West Asia and North Africa, c/o ICARDA, Aleppo, Syria].
- (0359) Impiglia, A.; Nachit, M.M.; Saleh, A.; Lafiandra, D.; Porceddu, E. 1996. Occurrence of unusual storage proteins electrophoretic patterns in durum wheat and their effect on gluten strength. Page 240 *in* Abstracts: 5th International Wheat Conference, Ministry of Agriculture and Rural Affairs, Turkey/CIMMYT/ICARDA/Oregon State University/USAID/GTZ, 10-14 June 1996, Ankara, Turkey. (Abstract.). [Available from: Ministry of Agricul-

ture and Rural Affairs, Milli Mudafaca Caddesi, No. 20 Kiziley, Ankara 06171, Turkey].

- (0360) Johansen, C.; Saxena, N.P.; Saxena, M.C. 1996. Comparisons of abiotic constraints to chickpea production in WANA and SAT. Pages 181-188 in *Adaptation of Chickpea in the West Asia and North Africa Region: Proceedings of a Workshop on Adaptation of Chickpea in the West Asia and North Africa Region*, ICRISAT/ICARDA, November 1992, Aleppo, Syria (N.P. Saxena, M.C. Saxena, C. Johansen, S.M. Virmani and H. Harris, eds.). [Available from: ICRISAT, Patancheru, Andhra Pradesh 502 324, India].
- (0361) Jones, M. 1996. An holistic approach to the land degradation problems of the West Asia/North Africa (WANA) region. Page 8 in *International Conference on Land Degradation: Programme Abstracts and Excursions*, 10-14 June 1996, Adana, Turkey. (Abstract.)
- (0362) Jones, M.; Haddad, N.; Harris, H. 1996. Regional summary: West Asia. Pages 85-86 in *Adaptation of Chickpea in the West Asia and North Africa Region: Proceedings of a Workshop on Adaptation of Chickpea in the West Asia and North Africa Region*, ICRISAT/ICARDA, November 1992, Aleppo, Syria (N.P. Saxena, M.C. Saxena, C. Johansen, S.M. Virmani and H. Harris, eds.). [Available from: ICRISAT, Patancheru, Andhra Pradesh 502 324, India].
- (0363) Ketata, H.; Morgounov, A.; Braun, H.; Jarrah, M. 1996. Effect of yellow rust and drought-and-heat stress on the performance of facultative and winter bread wheat germplasm. Pages 189-190 in *Abstracts: 5th International Wheat Conference*, Ministry of Agriculture and Rural Affairs, Turkey/CIMMYT/ICARDA/Oregon State University/USAID/GTZ, 10-14 June 1996, Ankara, Turkey. (Abstract.). [Available from: of Agriculture and Rural Affairs, Milli Mudafaca Caddesi, No. 20 Kiziley, Ankara 06171, Turkey].
- (0364) Lamnoui, M.; Wahbi, S.; Beniwal, S.P.S. 1996. Recherche des sources de resistance a *Ascochyta rabiei* agent causal de l'anthracnose du pois-chiche [Search for sources of resistance to *Ascochyta rabiei* causing ascochyta blight in chickpea]. Pages 307-309 in *Proceedings du Symposium Regional sur les Maladies des Céréales et des Légumineuses Alimentaires (Projet Maghrebin PNUD/RAB/91/007)*, 11-14 Nov 1996, Rabat, Morocco (B. Ezzahiri, A. Al Yamani, A. Farih and M. El Yamani, eds.). [Fr]. [Available from: INRA, Avenue de la Victoire, B.P. 415, Rabat R.P., Morocco].
- (0365) Maali, S.H.; Duwayri, M.A.; Nachit, M.M. 1996. Utilization of *Triticum dicoccoides* in grain quality improvement of durum wheat. Pages 197-203 in *Plant Genetic Resources of Jordan: Proceedings of a National Seminar*, 2-4 Aug 1994, Amman, Jordan (A.A. Jaradat, ed.). [Available from: IPGRI, Regional Office for West Asia and North Africa, c/o ICARDA, Aleppo, Syria].

- (0366) Makkouk, K.M. 1996. Integrated management of virus diseases affecting cereal and legume crops. Pages 319-322 *in* Proceedings du Symposium Regional sur les Maladies des Céréales et des Légumineuses Alimentaires (Projet Maghrebin PNUD/RAB/91/007), 11-14 Nov 1996, Rabat, Morocco (B. Ezzahiri, A. Al Yamani, A. Farih and M. El Yamani, eds.). [En]. [Available from: INRA, Avenue de la Victoire, B.P. 415, Rabat R.P., Morocco].
- (0367) Makkouk, K.M.; Damsteet, V.; Johnstone, G.R.; Katul, L.; Lesemann, D.-E.; Kumari, S.G. 1996. Identification and some properties of soybean dwarf luteovirus affecting lentils in Syria. Page 10 *in* Program and Abstracts Book, 14th Meeting of the International Working Group on Legume Viruses (IWGLV), 18-19 Aug 1996, Cairo, Egypt. (Abstract no. 20.).
- (0368) Malhotra, R.S.; Singh, K.B.; van Rheenen, H.A.; Pala, M. 1996. Genetic improvement and agronomic management of chickpea with emphasis on the Mediterranean region. Pages 217-232 *in* Adaptation of Chickpea in the West Asia and North Africa Region: Proceedings of a Workshop on Adaptation of Chickpea in the West Asia and North Africa Region, ICRISAT/ICARDA, November 1992, Aleppo, Syria (N.P. Saxena, M.C. Saxena, C. Johansen, S.M. Virmani and H. Harris, eds.). [Available from: ICRISAT, Patancheru, Andhra Pradesh 502 324, India].
- (0369) Mamluk, O. F. 1996. Wheat yellow rust epiphytotics in West Asia. Pages 337-340 *in* Proceedings du Symposium Regional sur les Maladies des Cereales et des Légumineuses Alimentaires (Projet Maghrebin PNUD/RAB/91/007), 11-14 Nov 1996, Rabat, Morocco (B. Ezzahiri, A. Al Yamani, A. Farih and M. El Yamani, eds.). [Available from: INRA, Avenue de la Victoire, B.P. 415, Rabat R.P., Morocco].
- (0370) Mamluk, O.F. 1996. Bunts and smuts of wheat in North Africa and the Near East. Page 142 *in* Abstracts: 5th International Wheat Conference, Ministry of Agriculture and Rural Affairs, Turkey/CIMMYT/ICARDA/Oregon State University/USAID/GTZ, 10-14 June 1996, Ankara, Turkey. (Abstract.). [Available from: Ministry of Agriculture and Rural Affairs, Milli Mudafaca Caddesi, No. 20 Kiziley, Ankara 06171, Turkey].
- (0371) Mamluk, O.F.; El-Naimi, M.; Hakim, M.S. 1996. Host-preference in *Puccinia striiformis* f.sp. *tritici*. Pages 86-88 *in* Cereal Rusts and Powdery Mildews Conference: Proceedings of the 9th European and Mediterranean Cereal Rust Foundation, 2-6 Sept 1996, Lunteren, The Netherlands (G.H.J., Kema, R.E. Niks and R.A. Daamen, eds.). [Available from: European and Mediterranean Cereal Rust Foundation, Wageningen, The Netherlands].
- (0372) Masri, Z.; Ryan, J.; Pala, M. 1996. Specific effects of a cereal-legume rotations on soil physical properties under mediterranean-type conditions. Page 51

in International Conference on Land Degradation: Programme Abstracts and Excursions, 10-14 June 1996, Adana, Turkey. (Abstract.)

- (0373) McDonald, D.; Kamel, A. 1996. Regional summary: North Africa. Pages 123-124 *in* Adaptation of Chickpea in the West Asia and North Africa Region: Proceedings of a Workshop on Adaptation of Chickpea in the West Asia and North Africa Region, ICRISAT/ICARDA, November 1992, Aleppo, Syria (N.P. Saxena, M.C. Saxena, C. Johansen, S.M. Virmani and H. Harris, eds.). [Available from: ICRISAT, Patancheru, Andhra Pradesh 502 324, India].
- (0374) Moneim, M.A.; Khalifa, H.; El Enein, R.A. 1996. Building and sustaining the high production capacity of Egypt's irrigated lands: a long-term research program. Page 16 *in* International Conference on Land Degradation: Programme Abstracts and Excursions, 10-14 June 1996, Adana, Turkey. (Abstract.)
- (0375) Muehlbauer, F.J.; Haddad, N.I.; Slinkard, A.E.; Sakr, B. 1996. Lentil. Pages 93-134 *in* Genetics, cytogenetics and breeding of crop plants (P.N. Bahl and P.M. Salimath, eds.). [Available from: Oxford and IBH Publishing Co. Pvt. Ltd., New Delhi, India].
- (0376) Nachit, M.M. 1996. Network for integrated research to improve durum productivity in the mediterranean region. Page 458 *in* Abstracts: 5th International Wheat Conference, Ministry of Agriculture and Rural Affairs, Turkey/CIM-MYT/ICARDA/Oregon State University/USAID/GTZ, 10-14 June 1996, Ankara, Turkey. (Abstract.). [Available from: Ministry of Agriculture and Rural Affairs, Milli Mudafaca Caddesi, No. 20 Kiziley, Ankara 06171, Turkey].
- (0377) Nordblom, T.L.; Shomo, F.; Gintzburger, G. 1996. Food and feed prospects for resources in Central Asia. Pages 129-146 *in* Central Asia Regional Livestock Assessment: Workshop Proceedings, CRSP/ICARDA, 27 Feb - 1 Mar 1996, Tashkent, Uzbekistan. Also in Russian. [Available from: Small Ruminant CRSP, University of California, Davis, California 95616, USA].
- (0378) Nordblom, T.L.; Shomo, F.; Gintzburger, G. 1996. Rangeland and rising feed deficits in West Asia and North Africa. Pages 399-400 *in* Rangelands in a Sustainable Biosphere: Proceedings of the Fifth International Rangeland Congress, Vol. 1, Contributed Presentations, 23-28 July, Salt Lake City, Utah, USA (N.E. West, ed.). [Available from: Society for Range Management 1839 York Street Denever, Colorado 80206, USA].
- (0379) Nozari, K.; Mamluk, O.F.; El-Naimi, M. 1996. Resistance evaluation of durum wheat advanced lines to yellow rust at seedling and adult plant stages in plastic house and field condition in ICARDA. Page 60 *in* the Proceedings of the 12th Iranian Plant Protection Congress, Seed and Plant Improvement

Institute, 2-7 Sept 1995, Karaj, Iran. [Available from: Seed and Plant Improvement Research Institute, Mardabad Avenue, P.O. Box 4119, Karaj 31585, Iran].

- (0380) Nozari, K.; Mamluk, O.F.; El-Naimi, M. 1996. Resistance evaluation of bread wheat advanced lines to yellow rust at seedling and adult plant stages in plastic house and field condition in ICARDA. Page 61 *in* the Proceedings of the 12th Iranian Plant Protection Congress, Seed and Plant Improvement Institute, 2-7 Sept 1995, Karaj, Iran. [Available from: Seed and Plant Improvement Research Institute, Mardabad Avenue, P.O. Box 4119, Karaj 31585, Iran].
- (0381) Ortiz Ferrara, G.; Mosaad, G.; Mahalakshmi, V.; Rajaram, S. 1996. Photoperiod and vernalization response of mediterranean wheats and implications for adaptation. Page 66 *in* Abstracts: 5th International Wheat Conference, Ministry of Agriculture and Rural Affairs, Turkey/CIMMYT/ICARDA/Oregon State University/USAID/GTZ, 10-14 June 1996, Ankara, Turkey. (Abstract.). [Available from: Ministry of Agriculture and Rural Affairs, Milli Mudafaca Caddesi, No. 20 Kiziley, Ankara 06171, Turkey].
- (0382) Ottekin, A.; Tosun, H.; Akar, T.; Tahir, M. 1996. Variability, heritability and correlation in cold and yield characters in winter/facultative barley. Pages 657-659 *in* the 5th International Oat Conference and 7th International Barley Genetics Symposium: Poster Sessions Vol. 2: Proceedings of a Joint Conference, Quaker/Brewing Malting Barley Research Institute, 30 July - 6 Aug 1996, University of Saskatchewan, Saskatoon, Saskatchewan, Canada (A. Slinkard, G. Scoles and B. Rossnagel, eds.). [Available from: Brewing Malting Barley Research Institute; Poster No. 290].
- (0383) Oweis, T. 1996. Water harvesting and supplemental irrigation: an efficient response to water scarcity in the dry areas. Pages 137-154 *in* Sixteenth Congress on Irrigation and Drainage, Sustainability of Irrigated Agriculture: Workshop on Water Saving and Sustainable Irrigated Agriculture in the Mediterranean Region, CIHEAM/ICID, 1996, Cairo, Egypt. [Available from: CIHEAM, Montanana, 177 Apt. de Correas 202, Zaragoza, Spain].
- (0384) Oweis, T.; Pala, M. 1996. Response of some bread and durum wheat varieties to supplemental irrigation, nitrogen and date of planting. Page 310 *in* Abstracts: 5th International Wheat Conference, Ministry of Agriculture and Rural Affairs, Turkey/CIMMYT/ICARDA/Oregon State University/USAID/GTZ, 10-14 June 1996, Ankara, Turkey. (Abstract.). [Available from: Ministry of Agriculture and Rural Affairs, Milli Mudafaca Caddesi, No. 20 Kiziley, Ankara 06171, Turkey].
- (0385) Pagnotta, M.A.; Impiglia, A.; Tanzarella, O.A.; Nachit, M.M.; Porceddu, E. 1996. Variability present in a durum wheat landrace Haurani. Page 67 *in*

Abstracts: 5th International Wheat Conference, Ministry of Agriculture and Rural Affairs, Turkey/CIMMYT/ICARDA/Oregon State University/USAID/GTZ, 10-14 June 1996, Ankara, Turkey. (Abstract.). [Available from: Ministry of Agriculture and Rural Affairs, Milli Mudafaca Caddesi, No. 20 Kiziley, Ankara 06171, Turkey].

- (0386) Pena, R.J.; Braun, H.; Morgounov, A.I.; Ketata, H.; Payne, T.S. 1996. The frequencies of Glu-I alleles in germplasm from the International Winter Wheat Improvement Program (Turkey-CIMMYT-ICARDA). Pages 385-386 *in* Abstracts: 5th International Wheat Conference, Ministry of Agriculture and Rural Affairs, Turkey/CIMMYT/ICARDA/Oregon State University/USAID/GTZ, 10-14 June 1996, Ankara, Turkey. (Abstract.). [Available from: Ministry of Agriculture and Rural Affairs, Milli Mudafaca Caddesi, No. 20 Kiziley, Ankara 06171, Turkey].
- (0387) Rizkallah, L.R.; Makkouk, K.M.; Madkour, M.; Solh, M.B. 1996. Surveys for faba bean viruses in Egypt during the period 1993-1996. Page 6 *in* Program and Abstracts Book, 14th Meeting of the International Working Group on Legume Viruses (IWGLV), 18-19 Aug 1996, Cairo, Egypt. (Abstract no. 12.).
- (0388) Ryan, J.; Abdel-Monem, M. 1996. Soil fertility management for sustained production in the West Asia - North Africa region: need for long-term research. International Agricultural Research Centers' Workshop on Long-Term Research on Soil, Water and Natural Management, 26-27 July 1996, Ohio State University, Columbus, Ohio, USA. (Abstract.)
- (0389) Ryan, J.; Pala, M. 1996. Changes in organic carbon in long-term rotation and tillage trials in northern Syria. Page 99 *in* Carbon Sequestration in Soil: an International Symposium, Abstract Vol. 22-26 July 1996, Ohio State University, Columbus, Ohio, USA. (Abstract.)
- (0390) Saari, E.E.; Mamluk, O.F.; Burnett, P.A. 1996. Bunts and smuts of wheat. Pages 1-11 *in* Bunt and Smut Diseases of Wheat: Concepts and Methods of Disease Management (R.D. Wilcoxson and E.E. Saari, eds.). [Available from: CIMMYT, Lisboa 27, Apartado Postal 6-641, 06600 Mexico, D.F., Mexico]. ISBN: 968-6923-37-3.
- (0391) Salama, M.I.; Kumari, S.G.; Sadik, A.S. 1996. Detection of pea seed-borne mosaic potyvirus using different techniques. Page 7 *in* Program and Abstracts Book, 14th Meeting of the International Working Group on Legume Viruses (IWGLV), 18-19 Aug 1996, Cairo, Egypt. (Abstract no. 14.).
- (0392) Salkini, A.B.; Oweis, T. 1996. Optimizing groundwater use for supplemental irrigation of wheat production in Syria. Page 321 *in* Abstracts: 5th International Wheat Conference, Ministry of Agriculture and Rural Affairs,

Turkey/CIMMYT/ICARDA/Oregon State University/USAID/GTZ, 10-14 June 1996, Ankara, Turkey. (Abstract.). [Available from: Ministry of Agriculture and Rural Affairs, Milli Mudafaca Caddesi, No. 20 Kiziley, Ankara 06171, Turkey].

- (0393) Saxena, M.C. 1996. Chickpea in the WANA region: an overview. Pages 3-6 *in* Adaptation of Chickpea in the West Asia and North Africa Region: Proceedings of a Workshop on Adaptation of Chickpea in the West Asia and North Africa Region, ICRISAT/ICARDA, November 1992, Aleppo, Syria (N.P. Saxena, M.C. Saxena, C. Johansen, S.M. Virmani and H. Harris, eds.). [Available from: ICRISAT, Patancheru, Andhra Pradesh 502 324, India].
- (0394) Saxena, M.C.; Solh, M.B. 1996. Regional summary: Nile Valley. Pages 171-172 *in* Adaptation of Chickpea in the West Asia and North Africa Region: Proceedings of a Workshop on Adaptation of Chickpea in the West Asia and North Africa Region, ICRISAT/ICARDA, November 1992, Aleppo, Syria (N.P. Saxena, M.C. Saxena, C. Johansen, S.M. Virmani and H. Harris, eds.). [Available from: ICRISAT, Patancheru, Andhra Pradesh 502 324, India].
- (0395) Saxena, N.P. 1996. Chickpea in WANA project: concepts and approaches. Pages 7-11 *in* Adaptation of Chickpea in the West Asia and North Africa Region: Proceedings of a Workshop on Adaptation of Chickpea in the West Asia and North Africa Region, ICRISAT/ICARDA, November 1992, Aleppo, Syria (N.P. Saxena, M.C. Saxena, C. Johansen, S.M. Virmani and H. Harris, eds.). [Available from: ICRISAT, Patancheru, Andhra Pradesh 502 324, India].
- (0396) Saxena, N.P.; Saxena, M.C.; Johansen, C.; Virmani, S.M.; Harris, H. 1996. Future research priorities for chickpea in WANA and SAT. Pages 257-262 *in* Adaptation of Chickpea in the West Asia and North Africa Region: Proceedings of a Workshop on Adaptation of Chickpea in the West Asia and North Africa Region, ICRISAT/ICARDA, November 1992, Aleppo, Syria (N.P. Saxena, M.C. Saxena, C. Johansen, S.M. Virmani and H. Harris, eds.). [Available from: ICRISAT, Patancheru, Andhra Pradesh 502 324, India].
- (0397) Sharma, P.C.; Winter, P.; Bunger, T.; Huttel, B.; Weigand, F.; Weising, K.; Kahl, G. 1996. Detection of DNA polymorphism in chickpea (*Cicer arietinum* L.) using oligonucleotide probes. Pages 107-116 *in* Agricultural Biotechnology: 2nd Asia Pacific Conference (V.L. Chopra, R.P. Sharma and M.S. Swaminathan, eds.). [Available from: Science Publishers, P.O.Box 699, May St., Enfield, New Hampshire 03748, USA].
- (0398) Simane, B.; Struik, P.C.; Peacock, J.M. 1996. Water use efficiency: a measure of drought resistance in durum wheat under terminal stress. Pages 47-55 *in* The Ninth Regional Wheat Workshop for Eastern, Central and Southern Africa CIMMYT/CIDA Eastern Africa Cereals Program/CIMMYT/EU Eastern Africa/ SADC Wheat Programs, 2-6 Oct 1995, Addis Abeba, Ethiopia

(D.G. Tanner, T.S. Payne and O.S. Abdalla, eds.). [Available from: CIMMYT, Mexico City, A.P. 6-641, 06600 Mexico].

- (0399) Singh, K.B. 1996. From variety development to end users. Pages 111-116 *in* Organisation and Management of National Seed Programmes: Proceedings of a Follow-up Seminar/Workshop, DSE/ICARDA, 12-24 Nov 1994, Aleppo, Syria (H. Gast, ed.). [Available from: DSE, Wellinger St. 52, Feldafing 82336, Germany].
- (0400) Singh, M. 1996. Statistical estimation of time-trends in continuous cropping. Page 114 *in* Contributed Papers, The XVIIIth International Biometric Conference, IBC 96, 1-5 July 1996, Amsterdam, The Netherlands. [Available from: International Statistical Institute, 428 Prinses Beatrixlaan, P.O. Box 950, Voorburg, AZ 2270, The Netherlands].
- (0401) Solh, M.B. 1996. Capacity building and institutional development. Pages 248-253 *in* Wheat Production and Improvement in the Sudan: Proceedings of the National Research Review Workshop, ARC/DGIS/ICARDA, 27-30 Aug 1995, Wad Medani, Sudan (O.A. Ageeb, A.B. Elahmadi, M.B. Solh and M.C. Saxena, eds.). Price: US\$ 20.00 for HIC and US\$ 8.00 for LIC.
- (0402) Solh, M.B. 1996. Capacity building and institutional development. Pages 227-232 *in* Production and Improvement of Cool-Season Food Legumes in the Sudan: Proceedings of the National Research Review Workshop, ARC/DGIS/ICARDA, 27-30 Aug 1995, Wad Medani, Sudan (S.H. Salih, O.A. Ageeb, M.C. Saxena and M.B. Solh, eds.). Price: US\$ 20.00 for HIC and US\$ 8.00 for LIC.
- (0403) Tahir, M.; Ceccarelli, S.; Tosun, H.; Ottekin, A.; Shevtsov, V. 1996. Barley breeding for winter survival in continental Mediterranean environments. Pages 674-676 *in* the 5th International Oat Conference and 7th International Barley Genetics Symposium: Poster Sessions Vol. 2: Proceedings of a Joint Conference, Quaker/Brewing Malting Barley Research Institute, 30 July - 6 Aug 1996, University of Saskatchewan, Saskatoon, Saskatchewan, Canada (A. Slinkard, G. Scoles and B. Rosnagel, eds.). [Available from: Brewing Malting Barley Research Institute; Poster No. 296].
- (0404) Toubia-Rahme, H.; Pecchioni, N.; Vale, G.; Cattivelli, L.; Stanca, M. 1996. Mapping a quantitative trait *loci* (QTLs) for *Pyrenophora graminea* resistance in barley. Pages 289-297 *in* Proceedings du Symposium Regional sur les Maladies des Céréales et des Légumineuses Alimentaires (Projet Maghrebin PNUD/RAB/91/007), 11-14 Nov 1996, Rabat, Morocco (B. Ezzahiri, A. Al Yamani, A. Farih and M. El Yamani, eds.). [Available from: INRA, Avenue de la Victoire, B.P. 415, Rabat R.P., Morocco].
- (0405) Tutwiler, N. 1996. Socioeconomic constraints to adoption of chickpea. Pages 233-237 *in* Adaptation of Chickpea in the West Asia and North Africa Region:

Proceedings of a Workshop on Adaptation of Chickpea in the West Asia and North Africa Region, ICRISAT/ICARDA, November 1992, Aleppo, Syria (N.P. Saxena, M.C. Saxena, C. Johansen, S.M. Virmani and H. Harris, eds.). [Available from: ICRISAT, Patancheru, Andhra Pradesh 502 324, India].

- (0406) Vale, G.; Toubia-Rahme, H.; Torrigiani, E.; Delogu, G. 1996. Molecular analysis of barley-*Pyrenophora graminea* interaction. Pages 780-781 in the 5th International Oat Conference and 7th International Barley Genetics Symposium: Poster Sessions Vol. 2: Proceedings of a Joint Conference, Quaker/Brewing Malting Barley Research Institute, 30 July - 6 Aug 1996, University of Saskatchewan, Saskatoon, Saskatchewan, Canada (A. Slinkard, G. Scoles and B. Rosnagel, eds.). Poster No. 333. [Available from: Brewing Malting Barley Research Institute; Poster No. 478].
- (0407) Valkoun, J.; Konopka, J. 1996. Role of ICARDA in plant genetic resources conservation in Arab countries. Pages 8-1 - 8-8 in Final Report and Proceedings of the Conference on Biological Diversity; its Conservation and Sustainability in the Arab World, UNEP, 12-14 Dec 1995, Bahrain. [Available from: UNEP, Bahrain].
- (0408) van Gastel, A.J.G. 1996. Strengthening the seed sector. Pages 3-9 in Organisation and Management of National Seed Programmes: Proceedings of a Follow-up Seminar/Workshop, DSE/ICARDA, 12-24 Nov 1994, Aleppo, Syria (H. Gast, ed.). [Available from: DSE, Wellinger St. 52, Feldafing 82336, Germany].
- (0409) van Gastel, A.J.G. 1996. Formal and informal seed programs. Pages 31-38 in Seed Science and Technology: Proceedings of a Train-the-Trainers Workshop, Med-campus Programme (EEC)/ICARDA, 24 Apr - 9 May 1993, Amman, Jordan (A.J.G. van Gastel, M.A. Pagnotta and E. Porceddu, eds.).
- (0410) van Gastel, A.J.G. 1996. Variety evaluation. Pages 141-150 in Seed Science and Technology: Proceedings of a Train-the-Trainers Workshop, Med-campus Programme (EEC)/ICARDA, 24 Apr - 9 May 1993, Amman, Jordan (A.J.G. van Gastel, M.A. Pagnotta and E. Porceddu, eds.).
- (0411) van Gastel, A.J.G.; Bishaw, Z. 1996. Seed certification. Pages 299-306 in Seed Science and Technology: Proceedings of a Train-the-Trainers Workshop, Med-campus Programme (EEC)/ICARDA, 24 Apr - 9 May 1993, Amman, Jordan (A.J.G. van Gastel, M.A. Pagnotta and E. Porceddu, eds.).
- (0412) van Gastel, A.J.G.; Bishaw, Z. 1996. Different methods of variety maintenance. Pages 151-159 in Seed Science and Technology: Proceedings of a Train-the-Trainers Workshop, Med-campus Programme (EEC)/ICARDA, 24 Apr - 9 May 1993, Amman, Jordan (A.J.G. van Gastel, M.A. Pagnotta and E. Porceddu, eds.).

- (0413) van Gastel, A.J.G.; Bishaw, Z. 1996. Seed fumigation. Pages 287-288 *in* Seed Science and Technology: Proceedings of a Train-the-Trainers Workshop, Med-campus Programme (EEC)/ICARDA, 24 Apr - 9 May 1993, Amman, Jordan (A.J.G. van Gastel, M.A. Pagnotta and E. Porceddu, eds.).
- (0414) van Leur, J.; Grando, S.; Ceccarelli, S. 1996. Use of barley landraces in breeding and selection program aimed at low input environments: the Syrian experience. Pages 123-127 *in* Barley Research in Ethiopia: Past Work and Future Prospects: Proceedings of the First Barley Research Review Workshop, Institute of Agricultural Research/ICARDA, 16-19 Oct 1993, Addis Abeba, Ethiopia (H. Gebre and J. van Leur, eds.). [Available from: Institute of Agricultural Research, P.O. Box 2003, Addis Abeba, Ethiopia].
- (0415) Vetten, H.J.; Franz, A.; Katul, A.; Makkouk, K.M. 1996. Further characterization of faba bean necrotic yellows virus. Page 13 *in* Program and Abstracts Book, 14th Meeting of the International Working Group on Legume Viruses (IWGLV), 18-19 Aug 1996, Cairo, Egypt. (Abstract no. 27.).
- (0416) Wakil, M.; Jones, M.; Oweis, T.; Ryan, J. 1996. Salinization secondaire des basses plaines de la vallée de El-Khabour et son effet sur la productivité du blé [Secondary salinization of the low plains of El-Khabour Valley and its effect on wheat productivity]. Conference sur la rehabilitation des Sols Sales et leur Gestion, 19-20 May 1996, Damascus, Syria. (Abstract.)
- (0417) Walker, G.K. 1996. Climatic adaptation of chickpea in WANA. Pages 175-180 *in* Adaptation of Chickpea in the West Asia and North Africa Region: Proceedings of a Workshop on Adaptation of Chickpea in the West Asia and North Africa Region, ICRISAT/ICARDA, November 1992, Aleppo, Syria (N.P. Saxena, M.C. Saxena, C. Johansen, S.M. Virmani and H. Harris, eds.). [Available from: ICRISAT, Patancheru, Andhra Pradesh 502 324, India].
- (0418) Weigand, F.; Baum, M.; Udupa, S.M. 1996. DNA marker-assisted breeding and genetic engineering of ICARDA mandated crops. Pages 105-110 *in* Organisation and Management of National Seed Programmes: Proceedings of a Follow-up Seminar/Workshop, DSE/ICARDA, 12-24 Nov 1994, Aleppo, Syria (H. Gast, ed.). [Available from: DSE, Wellinger St. 52, Feldafing 82336, Germany].
- (0419) Weigand, S. 1996. Chickpea insect pests: distribution, importance, and management strategy in WANA and SAT. Pages 199-205 *in* Adaptation of Chickpea in the West Asia and North Africa Region: Proceedings of a Workshop on Adaptation of Chickpea in the West Asia and North Africa Region, ICRISAT/ ICARDA, November 1992, Aleppo, Syria (N.P. Saxena, M.C. Saxena, C. Johansen, S.M. Virmani and H. Harris, eds.). [Available from: ICRISAT, Patancheru, Andhra Pradesh 502 324, India].

- (0420) Wellings, C.R.; McIntosh, A.R.; Mamluk, O.F. 1996. Near isogenic lines for assessment of pathogenic variation in the wheat stripe (yellow) rust pathogen. Pages 166-167 *in* Abstracts: 5th International Wheat Conference, Ministry of Agriculture and Rural Affairs, Turkey/CIMMYT/ICARDA/Oregon State University/USAID/GTZ, 10-14 June 1996, Ankara, Turkey. [En]. (Abstract.). [Available from: Ministry of Agriculture and Rural Affairs, Milli Mudafaca Caddesi, No. 20 Kiziley, Ankara 06171, Turkey].
- (0421) White, C.L.; Treacher, T.; Bahhady, F.A. 1996. Mineral deficiencies in grazing sheep in Pakistan. Pages 61-67 *in* Mineral Problems in Sheep in Northern China and Other Regions of Asia: Proceedings of a Workshop, Ministry of Agriculture, China/ACIAR, 25-30 Sept 1995, Beijing, China (D.G. Masters, Y. Shunxiang and C.L. White, eds.). ACIAR Proceedings No. 73. [Available from: ACIAR, Canberra, Australia].
- (0422) Yau, S.K.; Nachit, M.M. 1996. Performance of 'Drira out-cross 7' triticale in West Asia, North Africa and Mediterranean Europe. Pages 725-729 *in* Triticale: Today and Tomorrow, Developments in Plant Breeding, Vol. 5 (H. Guedes-Pinto, N. Darvey and V.P. Carnide, eds.). [Available from: Kluwer Academic Publishers, Spuibld. 50, Postbus 989, Dordrecht, NL 3311, The Netherlands].
- (0423) Yau, S.K.; Saxena, M.C.; Ryan, J.; Ortiz Ferrara, G.; Nachit, M. 1996. Comparing durum with bread wheat for boron-toxicity tolerance. Pages 218-219 *in* Abstracts: 5th International Wheat Conference, Ministry of Agriculture and Rural Affairs, Turkey/CIMMYT/ICARDA/Oregon State University/USAID/GTZ, 10-14 June 1996, Ankara, Turkey. (Abstract.). [Available from: Ministry of Agriculture and Rural Affairs, Milli Mudafaca Caddesi, No. 20 Kiziley, Ankara 06171, Turkey].
- (0424) Abd El Moneim, A.M.; Saxena, M.C. 1997. Developing cultivated forage legumes for improved yield and quality to feed livestock in the dry areas. Pages 205-213 *in* Improvement of Crop-livestock Integration Systems in West Asia and North Africa: Proceedings of the Regional Symposium on Integrated Crop-livestock Systems in the Dry Areas of West Asia and North Africa, UNDP/ICARDA/AFESD/IFAD, 6-8 Nov 1995, Amman, Jordan (N. Haddad, R. Tutwiler and E. Thomson, eds.). [Available from: ICARDA, Aleppo, Syria].
- (0425) Abd El Moneim, A.M.; Saxena, M.C.; El-Saleh, A.; Nakkoul, H. 1997. The status of breeding grasspea (*Lathyrus sativus*) for improved yield and quality at ICARDA. Pages 81-82 *in* *Lathyrus* and Lathyrism, a Decade of Progress: Proceedings of an International Conference (R.T. Haimanot and F. Lambein, eds.). Addis Abeba University/IAR/ESTC/CEC/BADC/University of Ghent. 27-29 Nov 1995, Addis Abeba, Ethiopia. [Available from: University of Ghent, Ghent, Belgium].

- (0426) Abdel Monem, M.; Ryan, J. 1997. Nitrogen fertilizer use efficiency in WANA as determined by 15-N technique. Pages 57-63 in *Accomplishments and Future Challenges in Dryland Soil Fertility Research in the Mediterranean Area: Proceedings of the Soil Fertility Workshop, IMPHOS/ICARDA, 19-23 Nov 1995, Aleppo, Syria* (J. Ryan, ed.). [Available from: ICARDA, Aleppo, Syria].
- (0427) Afandi, F.; Trabulsi, N.; Saxena, M.C. 1997. Biological nitrogen fixation by cool-season legumes: impact on wheat productivity in Syria and Lebanon. Pages 88-94 in *Accomplishments and Future Challenges in Dryland Soil Fertility Research in the Mediterranean Area: Proceedings of the Soil Fertility Workshop, IMPHOS/ICARDA, 19-23 Nov 1995, Aleppo, Syria* (J. Ryan, ed.). [Available from: ICARDA, Aleppo, Syria].
- (0428) Ahmad, S.; Akem, C.; Abd El Moniem, A.M. 1997. Determination of rate-reducing resistance to *Peronospora viciae* in narbon vetch. Page 274 in *Sixth Arab Congress of Plant Protection: Abstract Book, ASPP/CNRSL, 27-31 Oct 1997, Beirut, Lebanon* (W. Khoury and B. Bayaa, eds.). [Ar, En]. Abstract No. F49. [Available from: Arab Society for Plant Protection, P.O. Box 113-6057, Beirut, Lebanon].
- (0429) Akem, C.; Ahmad, S.; Bellar, M. 1997. Prevalence and severity of ascochyta blight on chickpea in northwest Syria. Page 275 in *Sixth Arab Congress of Plant Protection: Abstract Book, ASPP/CNRSL, 27-31 Oct 1997, Beirut, Lebanon* (W. Khoury and B. Bayaa, eds.). [Ar, En]. Abstract No. F50. [Available from: Arab Society for Plant Protection, P.O. Box 113-6057, Beirut, Lebanon].
- (0430) Al-Zainab, M.H.; Mamluk, O.F. 1997. Biological and morphological studies on cereal seed-gall nematodes *Anguina* spp. from wheat and barley in Syria. Pages 343-344 in *Sixth Arab Congress of Plant Protection: Abstract Book, ASPP/CNRSL, 27-31 Oct 1997, Beirut, Lebanon* (W. Khoury and B. Bayaa, eds.). [Ar, En]. Abstract No. N16. [Available from: Arab Society for Plant Protection, P.O. Box 113-6057, Beirut, Lebanon].
- (0431) Babi, A.; El Bouhssini, M.; Al-Salti, M.N.; Khatib, M. 1997. Parasitoids of sunn pest (*Eurygaster integriceps* Put.) in northern Syria. Page 168 in *Sixth Arab Congress of Plant Protection: Abstract Book, ASPP/CNRSL, 27-31 Oct 1997, Beirut, Lebanon* (W. Khoury and B. Bayaa, eds.). [Ar, En]. Abstract No. C40. [Available from: Arab Society for Plant Protection, P.O. Box 113-6057, Beirut, Lebanon].
- (0432) Bahhady, F.; Christiansen, S.; Thomson, E.F.; Harris, H.; Eskridge, K.M.; Pape-Christiansen, A. 1997. Performance of Awassi lambs grazing common vetch in on-farm and on-station trials. Pages 51-63 in *Improvement of Crop-*

livestock Integration Systems in West Asia and North Africa: Proceedings of the Regional Symposium on Integrated Crop-livestock Systems in the Dry Areas of West Asia and North Africa, UNDP/ICARDA/AFESD/IFAD, 6-8 Nov 1995, Amman, Jordan (N. Haddad, R. Tutwiler and E. Thomson, eds.). [Available from: ICARDA, Aleppo, Syria].

- (0433) Baum, M.; Erskine, W.; Ramsay, G. 1997. Biotechnology and genetic resources on grain legumes: lentil and faba beans. Pages 117-131 *in* Plant and Plant Genetic Resources for Sustainability and Productivity (K. Watanabe and E. Pehu, eds.). [Available from: R.G. Landes Company/Academic Press, Inc. R.G. Landes Company, Georgetown, USA].
- (0434) Baum, M.; Labhilili, M.; Nachit, M.; Grando, S.; Ceccarelli, S. 1997. Barley and durum mapping at ICARDA. Abstract No. S20 in International Triticeae Mapping Initiative, 1997 Public Workshop: Program and Abstracts, 25-27 June 1997, Clermont-Ferrand, France. [Available from: INRA, Clermont-Ferrand, France].
- (0435) Baum, M.; Sayed, H.; Grando, S.; Ceccarelli, S.; Backes, G.; Mohler, V.; Jahoor, A.; Fischbeck, G. 1997. Mapping disease resistances and other agronomic important characters in barley with molecular markers. Abstract No. P1.02 in International Triticeae Mapping Initiative, 1997 Public Workshop: Program and Abstracts, 25-27 June 1997, Clermont-Ferrand, France. [Available from: INRA, Clermont-Ferrand, France].
- (0436) Bayaa, B.; El-Hassan, S.; Erskine, W. 1997. Biocontrol of *Fusarium oxysporum* f.sp. Pages 368-369 *in* Sixth Arab Congress of Plant Protection: Abstract Book, ASPP/CNRSL, 27-31 Oct 1997, Beirut, Lebanon (W. Khoury and B. Bayaa, eds.). [Ar, En]. Abstract No. O11. [Available from: Arab Society for Plant Protection, P.O. Box 113-6057, Beirut, Lebanon].
- (0437) Beg, A.; Pala, M. 1997. Evaluation of safflower in north Syria: varieties and seeding dates at three sites. Pages 222-228 *in* Safflower: a Multipurpose Species with Unexploited Potential and World Adaptability: Proceedings of the Fourth International Safflower Conference, National Research Council, Rome/Ministry of Land, Food and Forest Resources, Rome/University of Bari/University of Basilicata, Potenza/FAO, Rome/Municipality of Bari, 2-7 June 1997, Bari, Italy (A. Corleto, H.H. Mundel, R.K. Sastry, N. Riveland, D.L. Tanaka, J. Fernandez-Martinez, L.P. Zhang, E. Estendal and A.B. Hill, eds.). [Available from: Adriatica Editrici, Bari, Italy].
- (0438) Bellar, M.; Akem, C. 1997. Survey of faba bean diseases in the main faba bean growing regions of Syria. Page 291 *in* Sixth Arab Congress of Plant Protection: Abstract Book, ASPP/CNRSL, 27-31 Oct 1997, Beirut, Lebanon (W. Khoury and B. Bayaa, eds.). [Ar, En]. Abstract No. F65. [Available from: Arab Society for Plant Protection, P.O. Box 113-6057, Beirut, Lebanon].

- (0439) Bishaw, Z.; Kugbei, S. 1997. Seed supply in the WANA region - Status and constraints. Pages 18-33 *in* Alternative Strategies for Smallholder Seed Supply: Proceedings of an International Conference on Options for Strengthening National and Regional Seed Systems in Africa and West Asia, ICRISAT/ICARDA/IITA/GTZ, 10-14 Mar 1997, Harare, Zimbabwe (D.D. Rohrbach, Z. Bishaw and A.J.G. van Gastel, eds.). [Available from: ICRISAT, Patancheru 502 324, Andhra Pradesh, India].
- (0440) Bishaw, Z.; Manners, G.R.; Van Gastel, A.J.G. 1997. Seed sector scientists' perceptions of and recommendations for privatization of the seed industry in West Asia and North Africa. Pages 28-39 *in* Privatization of the seed industry in the West Asia and North Africa region, GTZ/ICARDA, 16-12 Nov 1995, Tunis, Tunisia (A.J.G. van Gastel, G.R. Manners and J. Wadsack, eds.). [Available from: GTZ, Postfach 5180, 65726 Eschborn, Germany].
- (0441) Ceccarelli, S. 1997. Selezione di cereali per zone aride e semiaride [Selection of cereals for arid and semiarid zones]. Pages 47-62 *in* La Ricerca Scientifica e L'Aridocoltura Sostenibile nella Regione del Mediterraneo, ANS, 4 Jan 1992, Rome, Italy (D. Bagnara and R. Palma, eds.). [It]. [Available from: Accademia Nazionale delle Scienze, Rome, Italy].
- (0442) Ceccarelli, S.; Bailey, E.; Grando, S.; Tutwiler, R. 1997. Decentralized, participatory plant breeding: a link between formal plant breeding and small farmers. Pages 65-74 *in* Ethics and Equity in Conservation and Use of Genetic Resources for Sustainable Food Security: Proceedings of a Workshop to Develop Guidelines for the CGIAR, 21-25 Apr 1997, Foz do Iguacu, Brazil. [Available from: IPGRI, Via delle Sette Chiese 142, 00145 Rome, Italy].
- (0443) Ceccarelli, S.; Grando, S. 1997. Increasing the efficiency of breeding through farmer participation. Pages 116-121 *in* Ethics and Equity in Conservation and Use of Genetic Resources for Sustainable Food Security: Proceedings of a Workshop to develop guidelines for the CGIAR, 21-25 Apr 1997, Foz do Iguacu, Brazil. [Available from: IPGRI, Via delle Sette Chiese 142, 00145 Rome, Italy].
- (0444) Choumane, W.; Weigand, F.; Udupa, S.M. 1997. DNA fingerprinting using oligonucleotide probes specific for microsatellite DNA sequences detect inter- and intra-varietal variability in chickpea. Pages 199-208 *in* DNA Markers and Breeding for Resistance to Ascochyta Blight in Chickpea: Proceedings of the Symposium on Application of DNA Fingerprinting for Crop Improvement: Marker-assisted Selection of Chickpea for Sustainable Agriculture in the Dry Areas, 11-12 Apr 1994, Aleppo, Syria (S.M. Udupa and F. Weigand, eds.). [Available from: ICARDA, Aleppo, Syria].
- (0445) Christiansen, S.; Nersoyan, N.; Goodchild, A.; Nordblom, T.; Shomo, F.; Thomson, E.; Bahhady, F.; Gintzburger, G.; Osman, A.; Singh, M. 1997.

Evolution of ICARDA's long-term cereal/pasture and forage legume rotation trial. Pages 118-127 *in* Accomplishments and Future Challenges in Dryland Soil Fertility Research in the Mediterranean Area: Proceedings of the Soil Fertility Workshop, IMPHOS/ICARDA, 19-23 Nov 1995, Aleppo, Syria (J. Ryan, ed.). [Available from: ICARDA, P.O. Box 5466, Aleppo, Syria].

- (0446) Crino, P.; Porta-Puglia, A.; Mosconi, C.; Infantino, A.; Singh, K.B.; Raiola, A.; Saccardo, F. 1997. Resistance to ascochyta blight and fusarium wilt for chickpea cultivation in Italy. Pages 55-68 *in* New Perspectives for an Ancient Species: the Chickpea in the Economy and Diet of Mediterranean Peoples: Proceedings of the Chickpea Conference, CNR/ENEA/ICARDA/IPGRI/INNCR/INTAGRES/INAS, 5 Dec 1995, Rome, Italy. [Available from: ICARDA, P.O. Box 5466, Aleppo, Syria].
- (0447) Damania, A.B. 1997. Diversity of major cultivated plants in the Near East: a review. Page 17 *in* The Origins of Agriculture and Domestication of Crop Plants in the Near East - The Harlan Symposium, 10-14 May 1997, Aleppo, Syria: Book of Abstracts. [Available from: ICARDA, P.O. Box 5466, Aleppo, Syria].
- (0448) Damania, A.B. 1997. Domestication of cereal crop plants and *in situ* conservation of their genetic resources in the fertile crescent. Page 62 *in* The Origins of Agriculture and Domestication of Crop Plants in the Near East - The Harlan Symposium, 10-14 May 1997, Aleppo, Syria: Book of Abstracts. [Available from: ICARDA, P.O. Box 5466, Aleppo, Syria].
- (0449) Diekmann, J.; Pala, M. 1997. Practical considerations in the establishment and management of fertilizer trials. Pages 324-327 *in* Accomplishments and Future Challenges in Dryland Soil Fertility Research in the Mediterranean Area: Proceedings of the Soil Fertility Workshop, IMPHOS/ICARDA, 19-23 Nov 1995, Aleppo, Syria (J. Ryan, ed.). [Available from: ICARDA, P.O. Box 5466, Aleppo, Syria].
- (0450) Dubin, H.J.; Fischer, R.A.; Mujeeb-Kazi, A.; Pena, R.J.; Sayre, K.D.; Skovmand, B.; Valkoun, J. 1997. Wheat. Pages 309-320 *in* Biodiversity in Trust: Conservation and Use of Plant Genetic Resources in CGIAR Centres, CGIAR/IPGRI/SGRP (D. Fuccillo, L. Sears and P. Stapleton, eds.). [Available from: Cambridge University Press, The Edinburgh Building, Shaftesbury Rd., Cambridge CB2 2RU, United Kingdom].
- (0451) El Bouhssini, M.; Ali, K.; Ceccarelli, S.; Grando, S.; Joubi, A. 1997. New sources of resistance in barley to Russian wheat aphid (Homoptera: Aphididae). Page 70 *in* Sixth Arab Congress of Plant Protection: Abstract Book, ASPP/CNRSL, 27-31 Oct 1997, Beirut, Lebanon (W. Khoury and B. Bayaa, eds.). [Ar, En]. Abstract No. E13. [Available from: Arab Society for Plant Protection, P.O. Box 113-6057, Beirut, Lebanon].

- (0452) El Mourid, M.; Gillard-Byers, T.E.; Laamari, A. 1997. The importance of the development and transfer of technology. Pages 449-458 in *Improvement of Crop-livestock Integration Systems in West Asia and North Africa: Proceedings of the Regional Symposium on Integrated Crop-livestock Systems in the Dry Areas of West Asia and North Africa*, UNDP/ICARDA/AFESD/IFAD, 6-8 Nov 1995, Amman, Jordan (N. Haddad, R. Tutwiler and E. Thomson, eds.). [Available from: ICARDA, P.O. Box 5466, Aleppo, Syria].
- (0453) El-Ahmed, A.; Asaad, S. 1997. The effect of infection with *Pyrenophora graminea* on barley yield component in northern Syria. Page 272 in *Sixth Arab Congress of Plant Protection: Abstract Book*, ASPP/CNRSL, 27-31 Oct 1997, Beirut, Lebanon (W. Khoury and B. Bayaa, eds.). [Ar, En]. Abstract No. F47. [Available from: Arab Society for Plant Protection, P.O. Box 113-6057, Beirut, Lebanon].
- (0454) El-Ahmed, A.; Asaad, S. 1997. An improved method for detection of *Pyrenophora graminea* in barley seeds. Page 271 in *Sixth Arab Congress of Plant Protection: Abstract Book*, ASPP/CNRSL, 27-31 Oct 1997, Beirut, Lebanon (W. Khoury and B. Bayaa, eds.). [Ar, En]. Abstract No. F46. [Available from: Arab Society for Plant Protection, P.O. Box 113-6057, Beirut, Lebanon].
- (0455) El-Ahmed, A.; Hamwieh, A.; Dibs, B.; Makkouk, K.M. 1997. Bacterial blight of pea *Pisum sativum* caused by *Pseudomonas syringae* pv. *pisi* in Syria. Page 320 in *Sixth Arab Congress of Plant Protection: Abstract Book*, ASPP/CNRSL, 27-31 Oct 1997, Beirut, Lebanon (W. Khoury and B. Bayaa, eds.). [Ar, En]. Abstract No. B9. [Available from: Arab Society for Plant Protection, P.O. Box 113-6057, Beirut, Lebanon].
- (0456) El-Daoudi, Y.H.; Mamluk, O.F.; Bekele, E.; Ghanem, E.H.; Solh, M.B.; Ahmad, M.S.; Bahamish, H. 1997. Status of wheat rusts in the Nile Valley and Red Sea region. Pages 246-247 in *Sixth Arab Congress of Plant Protection: Abstract Book*, ASPP/CNRSL, 27-31 Oct 1997, Beirut, Lebanon (W. Khoury and B. Bayaa, eds.). [Ar, En]. Abstract No. F24. [Available from: Arab Society for Plant Protection, P.O. Box 113-6057, Beirut, Lebanon].
- (0457) El-Naimi, M.; Mamluk, O.F. 1997. Application of non-chemical seed treatment for the control of common bunt in wheat. Pages 283-284 in *Sixth Arab Congress of Plant Protection: Abstract Book*, ASPP/CNRSL, 27-31 Oct 1997, Beirut, Lebanon (W. Khoury and B. Bayaa, eds.). [Ar, En]. Abstract No. F58. [Available from: Arab Society for Plant Protection, P.O. Box 113-6057, Beirut, Lebanon].
- (0458) Erskine, W. 1997. Use of historic and archaeological information in lentil improvement today. Pages 45-46 in *The Origins of Agriculture and*

Domestication of Crop Plants in the Near East - The Harlan Symposium, 10-14 May 1997, Aleppo, Syria: Book of Abstracts. [Available from: ICARDA, Aleppo, Syria].

- (0459) Erskine, W.; Slinkard, A.E. 1997. Creating higher genetic yield potential in lentil. Pages 127-137 *in* Recent Advances in Pulses Research: Proceedings of the International Symposium on Pulses Research, ISPRD, 2-6 Apr 1994, New Delhi, India (A.N. Asthana and M. Ali, eds.). [Available from: ISPRD, IIPR, Kanpur - 208 024, India].
- (0460) Firincioglu, H.K.; Christiansen, S.; Lamont, E.J.; Unal, S.; Peskircioglu, M.; Beniwal, S.P.S. 1997. Village, farm, and pasture resource assessment in planning a forage, livestock, and range improvement project for the central highlands of Turkey. Pages 39-50 *in* Improvement of Crop-livestock Integration Systems in West Asia and North Africa: Proceedings of the Regional Symposium on Integrated Crop-livestock Systems in the Dry Areas of West Asia and North Africa, UNDP/ICARDA/AFESD/IFAD, 6-8 Nov 1995, Amman, Jordan (N. Haddad, R. Tutwiler and E. Thomson, eds.). [Available from: ICARDA, Aleppo, Syria].
- (0461) Firincioglu, H.K.; Karagullu, N.; Unal, S.; Abd El Moneim, A.M.; Beniwal, S.P.S. 1997. Improving feed legumes for the central highlands of Turkey. Pages 214-232 *in* Improvement of Crop-livestock Integration Systems in West Asia and North Africa: Proceedings of the Regional Symposium on Integrated Crop-livestock Systems in the Dry Areas of West Asia and North Africa, UNDP/ICARDA/AFESD/IFAD, 6-8 Nov 1995, Amman, Jordan (N. Haddad, R. Tutwiler and E. Thomson, eds.). [Available from: ICARDA, Aleppo, Syria].
- (0462) Garabet, S.; Wood, M.; Ryan, J. 1997. Field estimates of nitrogen-use efficiency by irrigated and rainfed wheat in a mediterranean-type climate. Pages 95-106 *in* Accomplishments and Future Challenges in Dryland Soil Fertility Research in the Mediterranean Area: Proceedings of the Soil Fertility Workshop, IMPHOS/ICARDA, 19-23 Nov 1995, Aleppo, Syria (J. Ryan, ed.). [Available from: ICARDA, Aleppo, Syria].
- (0463) Ghannoum, M.I.; Nachit, M.M.; El Bouhssini, M.; Kornosor, S. 1997. Sources of resistance in durum wheat to Russian wheat aphid (Homoptera: Aphididae). Page 121 *in* Sixth Arab Congress of Plant Protection: Abstract Book, ASPP/CNRS, 27-31 Oct 1997, Beirut, Lebanon (W. Khoury and B. Bayaa, eds.). [Ar, En]. Abstract No. E62. [Available from: Arab Society for Plant Protection, P.O. Box 113-6057, Beirut, Lebanon].
- (0464) Gintzburger, G.; Nordblom, T.; Osman, A.E. 1997. Agro-pastoral systems, feed calendars, and feed resources in the Arab countries of the Mediterranean

region. Pages 24-38 in *Improvement of Crop-livestock Integration Systems in West Asia and North Africa: Proceedings of the Regional Symposium on Integrated Crop-livestock Systems in the Dry Areas of West Asia and North Africa*, UNDP/ICARDA/AFESD/IFAD, 6-8 Nov 1995, Amman, Jordan (N. Haddad, R. Tutwiler and E. Thomson, eds.). [Available from: ICARDA, Aleppo, Syria].

- (0465) Goodchild, A.V.; Thomson, E.F.; Ceccarelli, S. 1997. Optimizing laboratory indicators of the nutritive value of straw in decentralized barley straw quality evaluation. Pages 87-92 in *Recent Advances in Small Ruminant Nutrition: Proceedings of the Seminar of the FAO-CIHEAM Network of Cooperative Research on Sheep and Goats, Subnetwork on Nutrition*, FAO/CIHEAM/ Institut Agronomique et Vétérinaire Hassan II, 24-26 Oct 1996, Rabat, Morocco (J.E. Lindberg, H.L. Gonda and I. Ledin, eds.). Serie A: Seminaires Méditerranéennes No. 34. [Available from: CIHEAM, 11 rue Newton, 75116 Paris, France].
- (0466) Hamadeh, S.; Shomo, F.; Hammad, R.; Nordblom, T.; Goodchild, A.; Darwish, R.; Barbour, E.; Gintzburger, G. 1997. Survey of small ruminant systems in Lebanon. Pages 362-371 in *Improvement of Integration Systems in West Asia and North Africa: Proceedings of the Regional Symposium on Integrated Crop-livestock Systems in the Dry Areas of West Asia and North Africa*, UNDP/ICARDA/AFESD/IFAD, 6-8 Nov 1995, Amman, Jordan (N. Haddad, R. Tutwiler and E. Thomson, eds.). [Available from: ICARDA, Aleppo, Syria].
- (0467) Hasbany, R.; Atallah, T.; Garabet, S.; Ryan, J. 1997. Laboratory assessment of nitrogen mineralization in a wheat-based rotational trial. Pages 107-117 in *Accomplishments and Future Challenges in Dryland Soil Fertility Research in the Mediterranean Area: Proceedings of the Soil Fertility Workshop*, IMPHOS/ICARDA, 19-23 Nov 1995, Aleppo, Syria (J. Ryan, ed.). [Available from: ICARDA, Aleppo, Syria].
- (0468) Hassan, H.T.; Makkouk, K.M.; Haj Kasem, A.A. 1997. Viral diseases on cultivated legume crops in El-Ghab and Asharne regions. Page 205 in *Sixth Arab Congress of Plant Protection: Abstract Book*, ASPP/CNRSL, 27-31 Oct 1997, Beirut, Lebanon (W. Khoury and B. Bayaa, eds.). [Ar, En]. Abstract No. V31. [Available from: Arab Society for Plant Protection, P.O. Box 113-6057, Beirut, Lebanon].
- (0469) Hussein, M.M.; Dafalla, G.A.; Makkouk, K.M.; Kumari, S.G. 1997. Faba bean virus disease situation in Sudan. Page 215 in *Sixth Arab Congress of Plant Protection: Abstract Book*, ASPP/CNRSL, 27-31 Oct 1997, Beirut, Lebanon (W. Khoury and B. Bayaa, eds.). [Ar, En]. Abstract No. V39. [Available from: Arab Society for Plant Protection, P.O. Box 113-6057, Beirut, Lebanon].

- (0470) Impiglia, A.; Ryan, J. 1997. Cereal quality and mineral nutrition in the West Asia and North Africa environments. Page 18 *in* Regional Workshop on Food Security in the WANA Region, the Essential Need for Balanced Fertilization, Summaries of Papers, IPI/Ege University, Turkey, 26-30 May 1997, Bornova, Turkey. (Abstract.) [Available from: International Potash Institute, Basel, Switzerland].
- (0471) Janat, M.; Stroehlein, J.; Ryan, J. 1997. Use of radioactive phosphorus in soil fertility research: mobility in an acidified soil. Pages 181-188 *in* Accomplishments and Future Challenges in Dryland Soil Fertility Research in the Mediterranean Area: Proceedings of the Soil Fertility Workshop, IMPHOS/ICARDA, 19-23 Nov 1995, Aleppo, Syria (J. Ryan, ed.). [Available from: ICARDA, Aleppo, Syria].
- (0472) Jones, M. 1997. Soil and crop management research for sustainable improvement in agricultural productivity. Pages 128-134 *in* Accomplishments and Future Challenges in Dryland Soil Fertility Research in the Mediterranean Area: Proceedings of the Soil Fertility Workshop, IMPHOS/ICARDA, 19-23 Nov 1995, Aleppo, Syria (J. Ryan, ed.). [Available from: ICARDA, Aleppo, Syria].
- (0473) Khatib, F.; Al-Zainab, M.H.; Mamluk, O.F. 1997. Head sterility in barley in northern Syria and its relation to seed-gall nematodes *Anguina* sp.. Page 342 *in* Sixth Arab Congress of Plant Protection: Abstract Book, ASPP/CNRSL, 27-31 Oct 1997, Beirut, Lebanon (W. Khoury and B. Bayaa, eds.). [Ar, En]. Abstract No. N15. [Available from: Arab Society for Plant Protection, P.O. Box 113-6057, Beirut, Lebanon].
- (0474) Kumari, S.G.; Makkouk, K.M.; Bayaa, B. 1997. Viruses causing yellowing symptoms affecting cool-season food legumes in some West Asia and Red Sea countries: distribution and some control measures. Pages 209-210 *in* Sixth Arab Congress of Plant Protection: Abstract Book, ASPP/CNRSL, 27-31 Oct 1997, Beirut, Lebanon (W. Khoury and B. Bayaa, eds.). [Ar, En]. Abstract No. V34. [Available from: Arab Society for Plant Protection, P.O. Box 113-6057, Beirut, Lebanon].
- (0475) Labdi, M.; Singh, K.B.; Charrier, A.; Bouznad, Z.; Corbiere, R.; Maatougui, M.E.H. 1997. Contribution à l'étude du déterminisme génétique de la résistance du pois chiche à *Ascochyta rabiei* [A contribution study to determine genetics in chickpea resistant to *Ascochyta rabiei*]. Pages 239-257 *in* Les Légumineuses Alimentaires Méditerranéennes: Contraintes Biotiques et Potentialités de Développement, INRA, 20-22 Feb 1997, Rennes, France (B. Tivoli and G. Caubel, eds.). INRA, Paris, France. les Colloques, No. 88. [Fr].
- (0476) Labhilili, M.; Baum, M.; Nachit, M.M. 1997. Use of biotechnological tools for durum wheat improvement. Abstract No. P2.01 *in* International Triticeae

Mapping Initiative, 1997 Public Workshop: Program and Abstracts, 25-27 June 1997, Clermont-Ferrand, France. [Available from: INRA, Clermont-Ferrand, France].

- (0477) Leybourne, M.; Ghassali, F.; Osman, A.; Nordblom, T.; Gintzburger, G. 1997. The utilization of fodder shrubs (*Atriplex* spp., *Salsola vermiculata*) by agropastoralists in the northern Syrian steppe. Pages 425-436 in Improvement of Crop-livestock Integration Systems in West Asia and North Africa: Proceedings of the Regional Symposium on Integrated Crop-livestock Systems in the Dry Areas of West Asia and North Africa, UNDP/ICAR-DA/AFESD/IFAD, 6-8 Nov 1995, Amman, Jordan (N. Haddad, R. Tutwiler and E. Thomson, eds.). [Available from: ICARDA, Aleppo, Syria].
- (0478) Lhaloui, S.; Hatchett, J.; Ceccarelli, S.; El Bouhssini, M. 1997. Screening of wild and cultivated barley germplasm for resistance to barley stem gall midge in Morocco. Page 93 in Sixth Arab Congress of Plant Protection: Abstract Book, ASPP/CNRSL, 27-31 Oct 1997, Beirut, Lebanon (W. Khoury and B. Bayaa, eds.). [Ar, En]. Abstract No. E34. [Available from: Arab Society for Plant Protection, P.O. Box 113-6057, Beirut, Lebanon].
- (0479) Maass, B.L.; Hanson, J.; Robertson, L.D.; Kerridge, P.C.; Abd El Moneim, A.M. 1997. Forages. Pages 321-348 in Biodiversity in Trust: Conservation and Use of Plant Genetic Resources in CGIAR Centres, CGIAR/IPGRI/SGRP (D. Fuccillo, L. Sears and P. Stapleton, eds.). [Available from: Cambridge University Press, The Edinburgh Building, Shaftesbury Rd., Cambridge CB2 2RU, United Kingdom].
- (0480) Makkouk, K.M.; Attar, N. 1997. Detection of seed-borne viruses in lentil seeds by the tissue blot immunoassay (TBIA) test. Page 211 in Sixth Arab Congress of Plant Protection: Abstract Book, ASPP/CNRSL, 27-31 Oct 1997, Beirut, Lebanon (W. Khoury and B. Bayaa, eds.). [Ar, En]. Abstract No. V35. [Available from: Arab Society for Plant Protection, P.O. Box 113-6057, Beirut, Lebanon].
- (0481) Makkouk, K.M.; Ghulam, W. 1997. Interspecific hybrids as sources of resistance to barley yellow dwarf luteovirus. Page 212 in Sixth Arab Congress of Plant Protection: Abstract Book, ASPP/CNRSL, 27-31 Oct 1997, Beirut, Lebanon (W. Khoury and B. Bayaa, eds.). [Ar, En]. Abstract No. V36. [Available from: Arab Society for Plant Protection, P.O. Box 113-6057, Beirut, Lebanon].
- (0482) Makkouk, K.M.; Kumari, S.G. 1997. Screening of lentil (*Lens culinaris*) germplasm for resistance to three persistently aphid transmitted viruses. Page 208 in Sixth Arab Congress of Plant Protection: Abstract Book, ASPP/CNRSL, 27-31 Oct 1997, Beirut, Lebanon (W. Khoury and B. Bayaa,

eds.). [Ar, En]. Abstract No. V33. [Available from: Arab Society for Plant Protection, P.O. Box 113-6057, Beirut, Lebanon].

- (0483) Makkouk, K.M.; Kumari, S.G. 1997. Control of two persistently transmitted viruses by aphids affecting faba bean using (Gaucho) as a seed-dressing insecticide treatment. Pages 206-207 in *Sixth Arab Congress of Plant Protection: Abstract Book, ASPP/CNRSL, 27-31 Oct 1997, Beirut, Lebanon* (W. Khoury and B. Bayaa, eds.). [Ar, En]. Abstract No. V32. [Available from: Arab Society for Plant Protection, P.O. Box 113-6057, Beirut, Lebanon].
- (0484) Malhotra, R.S. 1997. Evaluation techniques for abiotic stresses in cool season food legumes. Pages 459-473 in *Recent Advances in Pulses Research: Proceedings of the International Symposium on Pulses Research, ISPRD, 2-6 Apr 1994, New Delhi, India* (A.N. Asthana and M. Ali, eds.). [Available from: ISPRD, IIPR, Kanpur 208 024, India].
- (0485) Mmbaga, M.T. 1997. Pathogenic variability of *Ascochyta rabiei* and ascochyta blight resistance in chickpea. Pages 23-37 in *DNA Markers and Breeding for Resistance to Ascochyta Blight in Chickpea: Proceedings of the Symposium on Application of DNA Fingerprinting for Crop Improvement: Marker-assisted Selection of Chickpea for Sustainable Agriculture in the Dry Areas, 11-12 Apr 1994, Aleppo, Syria* (S.M. Udupa and F. Weigand, eds.). [Available from: ICARDA, Aleppo, Syria].
- (0486) Monem, M.A.; Soliman, S. 1997. Potential role of biofertilizers for sustainable agriculture in Egypt I. Estimation of biological nitrogen fixation. Page 227 in *Fertilization for Sustainable Plant Production and Soil Fertility: 11th World Fertilizer Congress: Congress Guide and Abstracts Ferti, 7-13 Sept 1997, Ghent, Belgium*. (Abstract.)
- (0487) Nordblom, T.L. 1997. Economic considerations in fertilizer use and related public policy. Pages 308-314 in *Accomplishments and Future Challenges in Dryland Soil Fertility Research in the Mediterranean Area: Proceedings of the Soil Fertility Workshop, IMPHOS/ICARDA, 19-23 Nov 1995, Aleppo, Syria* (J. Ryan, ed.). [Available from: ICARDA, Aleppo, Syria].
- (0488) Nordblom, T.L.; Arab, G.; Gintzburger, G.; Osman, A.E. 1997. Results of a survey of bedouin groups with contracts to graze the government rangeland plantation at Maragha, Aleppo province, Syria. Pages 437-445 in *Improvement of Crop-livestock Integration Systems in West Asia and North Africa: Proceedings of the Regional Symposium on Integrated Crop-livestock Systems in the Dry Areas of West Asia and North Africa, UNDP/ICARDA/AFESD/IFAD, 6-8 Nov 1995, Amman, Jordan* (N. Haddad, R. Tutwiler and E. Thomson, eds.). [Available from: ICARDA, Aleppo, Syria].

- (0489) Nordblom, T.L.; Goodchild, A.V.; Shomo, F.; Gintzburger, G. 1997. Dynamics of feed resources in mixed farming systems of West/Central Asia-North Africa. Pages 131-148 *in* Crop Residues in Sustainable Mixed Crop/Livestock Farming Systems, CAB International/ICRISAT/ILRI (C. Renard, ed.). [Available from: CAB International, Wallingford, Oxon OX 16 8DE, United Kingdom].
- (0490) Obaedo, H.; Mamluk, O.F.; Bayaa, B. 1997. Primary sources of infection of septoria leaf blotch on wheat under Syrian conditions. Page 278 *in* Sixth Arab Congress of Plant Protection: Abstract Book, ASPP/CNRSL, 27-31 Oct 1997, Beirut, Lebanon (W. Khoury and B. Bayaa, eds.). [Ar, En]. Abstract No. F53. [Available from: Arab Society for Plant Protection, P.O. Box 113-6057, Beirut, Lebanon].
- (0491) Ocampo, B.; Singh, K.B.; Saccardo, F.; Coduti, C. 1997. Introgression of progressive genes from wild *Cicer* species: interspecific hybridization. Pages 96-102 *in* New Perspectives for an Ancient Species: the Chickpea in the Economy and Diet of Mediterranean Peoples: Proceedings of the Chickpea Conference, CNR/ENEA/ICARDA/IPGRI/INNCR/INTAGRES/INAS, 5 Dec 1995, Rome, Italy. [Available from: ICARDA, Aleppo, Syria].
- (0492) Osman, A.; Bahhady, F. 1997. Rehabilitation of marginal land using phosphate and grazing management. Pages 397-404 *in* Improvement of Crop-livestock Integration Systems in West Asia and North Africa: Proceedings of the Regional Symposium on Integrated Crop-livestock Systems in the Dry Areas of West Asia and North Africa, UNDP/ICARDA/AFESD/IFAD, 6-8 Nov 1995, Amman, Jordan (N. Haddad, R. Tutwiler and E. Thomson, eds.). [Available from: ICARDA, Aleppo, Syria].
- (0493) Osman, A.E. 1997. Potential benefits of phosphorus fertilizer on marginal lands. Pages 154-161 *in* Accomplishments and Future Challenges in Dryland Soil Fertility Research in the Mediterranean Area: Proceedings of the Soil Fertility Workshop, IMPHOS/ICARDA, 19-23 Nov 1995, Aleppo, Syria (J. Ryan, ed.). [Available from: ICARDA, Aleppo, Syria].
- (0494) Pala, M. 1997. Use of models to enhance nitrogen use by wheat. Pages 135-144 *in* Accomplishments and Future Challenges in Dryland Soil Fertility Research in the Mediterranean Area: Proceedings of the Soil Fertility Workshop, IMPHOS/ICARDA, 19-23 Nov 1995, Aleppo, Syria (J. Ryan, ed.). [Available from: ICARDA, Aleppo, Syria].
- (0495) Pala, M.; Beg, A. 1997. Agronomic assessment of safflower germplasm and research priorities in the West Asia and North Africa region. Pages 86-90 *in* Safflower: a Multipurpose Species with Unexploited Potential and World Adaptability: Proceedings of the Fourth International Safflower Conference,

National Research Council, Rome/Ministry of Land, Food and Forest Resources, Rome/University of Bari/University of Basilicata, Potenza/FAO, Rome/Municipality of Bari, 2-7 June 1997, Bari, Italy (A. Corleto, H.H. Mundel, R.K. Sastry, N. Riveland, D.L. Tanaka, J. Fernandez-Martinez, L.P. Zhang, E. Estendal and A.B. Hill, eds.). [Available from: Adriatica Editrici, Bari, Italy].

- (0496) Pape-Christiansen, A.; Doppler, W.; Nordblom, T.L. 1997. Daily and seasonal labor allocation in bedouin farming systems of northern Syria. Pages 553-564 *in* Improvement of Crop-livestock Integration Systems in West Asia and North Africa: Proceedings of the Regional Symposium on Integrated Crop-livestock Systems in the Dry Areas of West Asia and North Africa, UNDP/ICARDA/AFESD/IFAD, 6-8 Nov 1995, Amman, Jordan (N. Haddad, R. Tutwiler and E. Thomson, eds.). [Available from: ICARDA, Aleppo, Syria].
- (0497) Peacock, J.M.; Christiansen, S.; Isaac, J.; Taimeh, A.Y.; Valkoun, J. 1997. Drylands biodiversity: a case study from the Near East. Pages 35-50 *in* Combating Global Climate Change by Combating Land Degradation: Proceedings of a Workshop, UNEP/University of Adelaide, Australia/University of Arizona, USA, 4-8 Sept 1995, Nairobi, Kenya (V.R. Squires, E.P. Glenn and A. T. Ayoub, eds.). [Available from: UNEP, New York, USA].
- (0498) Rizkalla, L.R.; Makkouk, K.M.; Eldfrawy, G.; Mahmoud, S.A.; Solh, M.B.; Ommar, M. 1997. Host resistance and cultural practices as measures to control faba bean necrotic yellow virus in faba bean in Egypt. Page 175 *in* Sixth Arab Congress of Plant Protection: Abstract Book, ASPP/CNRSL, 27-31 Oct 1997, Beirut, Lebanon (W. Khoury and B. Bayaa, eds.). [Ar, En]. Abstract No. V3. [Available from: Arab Society for Plant Protection, P.O. Box 113-6057, Beirut, Lebanon].
- (0499) Rizkalla, L.R.; Makkouk, K.M.; Khalil, S.; Solh, M.B.; Mahmoud, S.A.; El-Tahlawy, M.A.; Omar, M. 1997. Survey for faba bean viruses during the period from 1993-1996 growing seasons in Egypt. Page 176 *in* Sixth Arab Congress of Plant Protection: Abstract Book, ASPP/CNRSL, 27-31 Oct 1997, Beirut, Lebanon (W. Khoury and B. Bayaa, eds.). [Ar, En]. Abstract No. V4. [Available from: Arab Society for Plant Protection, P.O. Box 113-6057, Beirut, Lebanon].
- (0500) Robertson, L.D. 1997. Faba bean. Pages 168-180 *in* Biodiversity in Trust: Conservation and Use of Plant Genetic Resources in CGIAR Centres, CGIAR/IPGRI/SGRP (D. Fuccillo, L. Sears and P. Stapleton, eds.). [Available from: Cambridge University Press, The Edinburgh Building, Shaftesbury Rd., Cambridge CB2 2RU, United Kingdom].

- (0501) Robertson, L.D.; Erskine, W. 1997. Lentil. Pages 129-138 *in* Biodiversity in Trust: Conservation and Use of Plant Genetic Resources in CGIAR Centres, CGIAR/IPGRI/SGRP (D. Fuccillo, L. Sears and P. Stapleton, eds.). [Available from: Cambridge University Press, The Edinburgh Building, Shaftesbury Rd., Cambridge CB2 2RU, United Kingdom].
- (0502) Ryan, J. 1997. Future directions of applied soil fertility research in West Asia and North Africa. Pages 335-340 *in* Accomplishments and Future Challenges in Dryland Soil Fertility Research in the Mediterranean Area: Proceedings of the Soil Fertility Workshop, IMPHOS/ICARDA, 19-23 Nov 1995, Aleppo, Syria (J. Ryan, ed.). [Available from: ICARDA, Aleppo, Syria].
- (0503) Ryan, J.; Garabet, S. 1997. Variability in analyses from WANA soil laboratories. Pages 248-259 *in* Accomplishments and Future Challenges in Dryland Soil Fertility Research in the Mediterranean Area: Proceedings of the Soil Fertility Workshop, IMPHOS/ICARDA, 19-23 Nov 1995, Aleppo, Syria (J. Ryan, ed.). [Available from: ICARDA, Aleppo, Syria].
- (0504) Ryan, J.; Garabet, S.; Dakermanji, A. 1997. Role of ICARDA in soil fertility training in West Asia and North Africa. Pages 328-331 *in* Accomplishments and Future Challenges in Dryland Soil Fertility Research in the Mediterranean Area: Proceedings of the Soil Fertility Workshop, IMPHOS/ICARDA, 19-23 Nov 1995, Aleppo, Syria (J. Ryan, ed.). [Available from: ICARDA, Aleppo, Syria].
- (0505) Ryan, J.; Garabet, S.; Masri, S.; Asfary, F. 1997. Seasonal nitrogen dynamics in a long-term cereal/legume rotation under Mediterranean conditions. Page 34 *in* Agronomy Abstracts, 1997 Annual Meetings of the American Society of Agronomy, Crop Science Society of America, Soil Science Society of America, Anaheim CA, USA, 26-31 Oct 1997. (Abstract.)
- (0506) Ryan, J.; Garabet, S.; Rashid, A.; El Gharous, M. 1997. Assessment of soil and plant analysis laboratories in the West Asia-North Africa region. Pages 181-182 *in* 1997 International Soil and Plant Analysis Symposium, the Promise of Precision: Past, Present, and Future, Plenary Session Papers and Poster Session Abstracts, 2-7 Aug 1997, Minnesota, USA. (Abstract.) [Available from: Soil and Plant Analysis Council, Inc., Georgia University Station, P.O. Box 2007, Athens, Ga 30612-0007 USA].
- (0507) Ryan, J.; Masri, S.; Garabet, S.; Harris, H. 1997. Changes in organic matter and nitrogen with a cereal-legume rotation trial. Pages 79-87 *in* Accomplishments and Future Challenges in Dryland Soil Fertility Research in the Mediterranean Area: Proceedings of the Soil Fertility Workshop, IMPHOS/ICARDA, 19-23 Nov 1995, Aleppo, Syria (J. Ryan, ed.). [Available from: ICARDA, Aleppo, Syria].

- (0508) Ryan, J.; Masri, S.; Masri, Z. 1997. Potassium in Syrian soils: implications for crop growth and fertilizer needs. Page 14 *in* Regional Workshop on Food Security in the WANA Region, the Essential Need for Balanced Fertilization, Summaries of Papers, IPI/Ege University, Turkey, 26-30 May 1997, Bornova, Turkey. (Abstract.) [Available from: International Potash Institute, Basel, Switzerland].
- (0509) Ryan, J.; Masri, S.; Pala, M. 1997. Residual and current effects of phosphorus in rotational trials. Pages 175-180 *in* Accomplishments and Future Challenges in Dryland Soil Fertility Research in the Mediterranean Area: Proceedings of the Soil Fertility Workshop, IMPHOS/ICARDA, 19-23 Nov 1995, Aleppo, Syria (J. Ryan, ed.). [Available from: ICARDA, Aleppo, Syria].
- (0510) Ryan, J.; Materon, L.; Zaklouta, M.; Masri, S. 1997. Nutritional constraints for pasture legumes: importance of zinc and phosphorus soil test values. Pages 197-203 *in* Accomplishments and Future Challenges in Dryland Soil Fertility Research in the Mediterranean Area: Proceedings of the Soil Fertility Workshop, IMPHOS/ICARDA, 19-23 Nov 1995, Aleppo, Syria (J. Ryan, ed.). [Available from: ICARDA, Aleppo, Syria].
- (0511) Ryan, J.; Monem, A.M. 1997. Nitrogen in rain-fed mediterranean soils: implications for fertilizer use and crop production. Page 73 *in* Fertilization for Sustainable Plant Production and Soil Fertility: 11th World Fertilizer Congress: Congress Guide and Abstracts Ferti, 7-13 Sept 1997, Ghent, Belgium. (Abstract.) [Available from: International Scientific Center of Fertilizers].
- (0512) Salti, M.N.; Babi, A.; Ibrahim, J.; Miller, R.; El Bouhssini, M. 1997. Field, and laboratory observation on the life cycle of the sunn pest (Bug) *Eurygaster integriceps* Put. Page 122 *in* Sixth Arab Congress of Plant Protection: Abstract Book, ASPP/CNRSL, 27-31 Oct 1997, Beirut, Lebanon (W. Khoury and B. Bayaa, eds.). [Ar, En]. Abstract No. E63. [Available from: Arab Society for Plant Protection, P.O. Box 113-6057, Beirut, Lebanon].
- (0513) Saxena, N.P.; Saxena, M.C.; Johansen, C. 1997. Chickpea ideotypes for low- and high-input conditions. Pages 217-231 *in* Recent Advances in Pulses Research: Proceedings of the International Symposium on Pulses Research, ISPRD, 2-6 Apr 1994, New Delhi, India (A.N. Asthana and M. Ali, eds.). [Available from: ISPRD, IIPR, Kanpur - 208 024, India].
- (0514) Scholz, U.; Schuster, R.-P.; Mamluk, O.F.; Sikora, R.A. 1997. Occurrence of cereal cyst nematode (*Heterodera latipons*) in some countries of the Near East and impact on yield. Page 337 *in* Sixth Arab Congress of Plant Protection: Abstract Book, ASPP/CNRSL, 27-31 Oct 1997, Beirut, Lebanon (W. Khoury and B. Bayaa, eds.). [Ar, En]. Abstract No. N10. [Available from: Arab Society for Plant Protection, P.O. Box 113-6057, Beirut, Lebanon].

- (0515) Shomo, F.; Nordblom, T.; Nasser, S.; Malki, G.; Bahhady, F.; Christiansen, S.; Pannell, D.; Redman, E. 1997. Preliminary economic analysis of medic pasture and other dryland crops in two-year rotations with wheat in northeast Syria. Pages 85-94 *in* Improvement of Crop-livestock Integration Systems in West Asia and North Africa: Proceedings of the Regional Symposium on Integrated Crop-livestock Systems in the Dry Areas of West Asia and North Africa, UNDP/ICARDA/AFESD/IFAD, 6-8 Nov 1995, Amman, Jordan (N. Haddad, R. Tutwiler and E. Thomson, eds.). [Available from: ICARDA, Aleppo, Syria].
- (0516) Singh, K.B. 1997. Experience with pyramiding of ascochyta blight resistance genes in kabuli chickpea. Pages 121-126 *in* DNA Markers and Breeding for Resistance to Ascochyta Blight in Chickpea: Proceedings of the Symposium on Application of DNA Fingerprinting for Crop Improvement: Marker-assisted Selection of Chickpea for Sustainable Agriculture in the Dry Areas, 11-12 Apr 1994, Aleppo, Syria (S.M. Udupa and Weigand, eds.). [Available from: ICARDA, Aleppo, Syria].
- (0517) Singh, K.B.; Pundir, R.P.S.; Robertson, L.D.; van Rheenen, H.A.; Singh, U.; Kelley, T.J.; Rao, P.P.; Johansen, C.; Saxena, N.P. 1997. Chickpea. Pages 100-113 *in* Biodiversity in Trust: Conservation and Use of Plant Genetic Resources in CGIAR Centres, CGIAR/IPGRI/SGRP (D. Fuccillo, L. Sears and P. Stapleton, eds.). [Available from: Cambridge University Press, The Edinburgh Building, Shaftesbury Rd., Cambridge CB2 2RU, United Kingdom].
- (0518) Singh, K.B.; Saxena, M.C. 1997. ICARDA - Italy cooperation in the development of chickpea cultivars. Pages 19-27 *in* New Perspectives for an Ancient Species: the Chickpea in the Economy and Diet of Mediterranean Peoples: Proceedings of the Chickpea Conference, CNR/ENEA/ICARDA/IPGRI/INNCR/INTAGRES/INAS, 5 Dec 1995, Rome, Italy. [Available from: ICARDA, Aleppo, Syria].
- (0519) Singh, K.B.; Verma, M.M. 1997. Wild *Cicer* species: problems and prospects. Pages 603-622 *in* Recent Advances in Pulses Research: Proceedings of the International Symposium on Pulses Research, ISPRD, 2-6 Apr 1994, New Delhi, India (A.N. Asthana and M. Ali, eds.). [Available from: ISPRD, IIPR, Kanpur - 208 024, India].
- (0520) Singh, M.; Ryan, J. 1997. Statistical concerns for soil fertility field trials. Pages 284-292 *in* Accomplishments and Future Challenges in Dryland Soil Fertility Research in the Mediterranean Area: Proceedings of the Soil Fertility Workshop, IMPHOS/ICARDA, 19-23 Nov 1995, Aleppo, Syria (J. Ryan, ed.). [Available from: ICARDA, Aleppo, Syria].
- (0521) Sweidan, Y.; Faddol, J.; Ceccarelli, S.; D Addabbo, T. 1997. Survey of nematodes on barley in Syria. Page 345 *in* Sixth Arab Congress of Plant Protection:

Abstract Book, ASPP/CNRSL, 27-31 Oct 1997, Beirut, Lebanon (W. Khoury and B. Bayaa, eds.). [Ar, En]. Abstract No. N17. [Available from: Arab Society for Plant Protection, P.O. Box 113-6057, Beirut, Lebanon].

- (0522) Tahir, M.; Goodchild, A.; Pashayani, H.; Kashour, G. 1997. Barley improvement for feed and forage use in continental mediterranean environments to increase livestock production. Pages 154-167 in *Improvement of Crop-livestock Integration Systems in West Asia and North Africa: Proceedings of the Regional Symposium on Integrated Crop-livestock Systems in the Dry Areas of West Asia and North Africa*, UNDP/ICARDA/AFESD/IFAD, 6-8 Nov 1995, Amman, Jordan (N. Haddad, R. Tutwiler and E. Thomson, eds.). [Available from: ICARDA, Aleppo, Syria].
- (0523) Thomson, E.F.; Mirza, S.N.; Rafique, S.; Afzal, J.; Rasool, I.; Atiq-ur-Rehman; Ershad, M.; Hussain, A.; Akbar, G.; Alvi, A.S. 1997. Utilization of fourwing saltbush for the arid rangelands of highland Balochistan, Pakistan. Pages 413-424 in *Improvement of Crop-livestock Integration Systems in West Asia and North Africa: Proceedings of the Regional Symposium on Integrated Crop-livestock Systems in the Dry Areas of West Asia and North Africa*, UNDP/ICARDA/AFESD/IFAD, 6-8 Nov 1995, Amman, Jordan (N. Haddad, R. Tutwiler and E. Thomson, eds.). [Available from: ICARDA, Aleppo, Syria].
- (0524) Toubia-Rahme, H.; Geagea, L.; van Leur, J.; Khoury, W. 1997. Histological studies of the pre-penetration development of *Rhynchosporium secalis* on barley. Pages 503-507 in *10th Congress of Mediterranean Phytopathological Union*, 2-5 June, Montpellier, France.
- (0525) Toubia-Rahme, H.; Pecchioni, N.; Vale, G.; Stanca, A.M. 1997. Genetic analyses of *loci* controlling quantitative resistance to barley leaf stripe (*Pyrenophora graminea*). Abstract No. S09 in *International Triticeae Mapping Initiative, 1997 Public Workshop: Program and Abstracts*, 25-27 June 1997, Clermont-Ferrand, France. (Abstract.) [Available from: INRA, Clermont-Ferrand, France].
- (0526) Toubia-Rahme, H.; Vale, G.; Cattivelli, L.; Stanca, M. 1997. Identification of RAPD markers linked to a *Pyrenophora graminea* resistance *locus* in barley. Page 277 in *Sixth Arab Congress of Plant Protection: Abstract Book*, ASPP/CNRSL, 27-31 Oct 1997, Beirut, Lebanon (W. Khoury and B. Bayaa, eds.). [Ar, En]. Abstract No. F52. [Available from: Arab Society for Plant Protection, P.O. Box 113-6057, Beirut, Lebanon].
- (0527) Toubia-Rahme, H.; Vale, G.; Pecchioni, N.; Delogu, G.; Stanca, A.M. 1997. Gene cloning and molecular markers linked to resistance in the barley-*Pyrenophora graminea* interaction. Page 69 in *Application of Marker Aided*

Selection in Cereal Breeding Programs: Book of Abstracts, EUCARPIA, Section Cereals Meeting, 22-23 Sept 1997, Tulln, Austria (H. Buerstmayr and P. Ruckebauer, eds.). (Abstract.) [Available from: IFA, Konrad Lorenz St. 20, A-3430 Tulln, Austria].

- (0528) Treacher, T.T.; Filo, S. 1997. Effects of body condition and level of nutrition before mating on fertility of Awassi ewes. Pages 223-226 *in* Recent Advances in Small Ruminant Nutrition: Proceedings of the Seminar of the FAO-CIHEAM Network of Cooperative Research on Sheep and Goats, Subnetwork on Nutrition, FAO/CIHEAM/Institut Agronomique et Vétérinaire Hassan II, 24-26 Oct 1996, Rabat, Morocco (J.E. Lindberg, H.L. Gonda and I. Ledin, eds.). Serie A: Séminaires Méditerranéennes No. 34. [Available from: CIHEAM, 11 rue Newton, 75116 Paris, France].
- (0529) Treacher, T.T.; Rihawi, S.; Owen, E. 1997. Utilization of barley stubble by Awassi sheep. Pages 316-329 *in* Improvement of Crop-livestock Integration Systems in West Asia and North Africa: Proceedings of the Regional Symposium on Integrated Crop-livestock Systems in the Dry Areas of West Asia and North Africa, UNDP/ICARDA/AFESD/IFAD, 6-8 Nov 1995, Amman, Jordan (N. Haddad, R. Tutwiler and E. Thomson, eds.). [Available from: ICARDA, Aleppo, Syria].
- (0530) Tutwiler, R.; Haddad, N.; Thomson, E. 1997. Crop-livestock integration in the drier areas of West Asia and North Africa. Pages 5-23 *in* Improvement of Crop-livestock Integration Systems in West Asia and North Africa: Proceedings of the Regional Symposium on Integrated Crop-livestock Systems in the Dry Areas of West Asia and North Africa, UNDP/ICARDA/AFESD/IFAD, 6-8 Nov 1995, Amman, Jordan (N. Haddad, R. Tutwiler and E. Thomson, eds.). [Available from: ICARDA, Aleppo, Syria].
- (0531) Tutwiler, R.; Martini, M.; Khreisat, I.; Mamdouh, Q.; Haddad, N. 1997. Adoption of improved barley production technologies in Jordan: impact of the Mashreq project, 1989-94. Pages 487-494 *in* Improvement of Crop-livestock Integration Systems in West Asia and North Africa: Proceedings of the Regional Symposium on Integrated Crop-livestock Systems in the Dry Areas of West Asia and North Africa, UNDP/ICARDA/AFESD/IFAD, 6-8 Nov 1995, Amman, Jordan (N. Haddad, R. Tutwiler and E. Thomson, eds.). [Available from: ICARDA, Aleppo, Syria].
- (0532) Tutwiler, R.; Martini, M.; Kneifis, A.; Sweidan, Y.; Haddad, N. 1997. Adoption of improved barley production technologies in Syria: impact of the Mashreq project, 1989-1994. Pages 477-486 *in* Improvement of Crop-livestock Integration Systems in West Asia and North Africa: Proceedings of the Regional Symposium on Integrated Crop-livestock Systems in the Dry Areas of West Asia and North Africa, UNDP/ICARDA/AFESD/IFAD, 6-8 Nov 1,

Amman, Jordan (N. Haddad, R. Tutwiler and E. Thomson, eds.). [Available from: ICARDA, Aleppo, Syria].

- (0533) Tutwiler, R.; Bailey, E. 1997. Agricultural growth and sustainability: conditions for their compatibility in the rainfed production systems of West Asia and North Africa. Pages 278-293 in *Sustainability, Growth, and Poverty Alleviation: A Policy and Agroecological Perspective* (S.A.Vosti and T. Reardon, eds.). [Available from: IFPRI, 2033 K Street N. W., Washington, D.C. 20006, USA].
- (0534) Udupa, S.M.; Weigand, F. 1997. Pathotyping of *Ascochyta rabiei* isolates of Syria. Pages 39-48 in *DNA Markers and Breeding for Resistance to Ascochyta Blight in Chickpea: Proceedings of the Symposium on Application of DNA Fingerprinting for Crop Improvement: Marker-assisted Selection of Chickpea for Sustainable Agriculture in the Dry Areas, 11-12 Apr 1994, Aleppo, Syria* (S.M. Udupa and F. Weigand, eds.). [Available from: ICARDA, Aleppo, Syria].
- (0535) Udupa, S.M.; Weigand, F. 1997. Genotyping with microsatellite and RAPD markers resolves pathotype diversity in the ascochyta blight pathogen of chickpea. Pages 67-77 in *DNA Markers and Breeding for Resistance to Ascochyta Blight in Chickpea: Proceedings of the Symposium on Application of DNA Fingerprinting for Crop Improvement: Marker-assisted Selection of Chickpea for Sustainable Agriculture in the Dry Areas, 11-12 Apr 1994, Aleppo, Syria* (S.M. Udupa and F. Weigand, eds.). [Available from: ICARDA, Aleppo, Syria].
- (0536) Valkoun, J.; Ceccarelli, S.; Konopka, J. 1997. Barley. Pages 191-212 in *Biodiversity in Trust: Conservation and Use of Plant Genetic Resources in CGIAR Centres, CGIAR/IPGRI/SGRP* (D. Fuccillo, L. Sears and P. Stapleton, eds.). [Available from: Cambridge University Press, The Edinburgh Building, Shaftesbury Rd., Cambridge CB2 2RU, United Kingdom].
- (0537) Valkoun, J.; Waines, J.G.; Konopka, J. 1997. Current geographical distribution and habitat of wild wheats and barley. Pages 63-64 in *The Origins of Agriculture and Domestication of Crop Plants in the Near East - The Harlan Symposium, 10-14 May 1997, Aleppo, Syria: Book of Abstracts*. [Available from: ICARDA, Aleppo, Syria].
- (0538) van Gastel, A.J.G.; Bishaw, Z.; Asiedu, E. 1997. The role of international agricultural research centers in supporting the seed sector. Pages 71-79 in *Alternative Strategies for Smallholder Seed Supply: Proceedings of an International Conference on Options for Strengthening National and Regional Seed Systems in Africa and West Asia, ICRISAT/ICARDA/IITA/GTZ, 10-14*

Mar 1997, Harare, Zimbabwe (D.D. Rohrbach, Z. Bishaw and A.J.G. van Gastel, eds.). [Available from: ICRISAT, Patancheru 502 324, Andhra Pradesh, India].

- (0539) Venora, G.; Ocampo, B.; Saccardo, F. 1997. The last decade of cytogenetic studies on wild and cultivated *Cicer* species. Pages 84-95 in *New Perspectives for an Ancient Species: the Chickpea in the Economy and Diet of Mediterranean Peoples: Proceedings of the Chickpea Conference, CNR/ENEA/ICARDA/IPGRI/INNCR/INTAGRES/INAS, 5 Dec 1995, Rome, Italy.* [Available from: ICARDA, Aleppo, Syria].
- (0540) Weigand, F.; Baum, M. 1997. Potential contribution of biotechnology to agricultural production in the West Asia and North Africa region. Pages 29-37 in *Integrating Biotechnology in Agriculture, Incentives, Constraints and Country Experiences: Report of a Policy Seminar for West Asia and North Africa, 22-24 Apr 1996, Rabat, Morocco (C. Brenner and J. Komen, eds.). Agricultural Biotechnology Policy Seminars, No. 3.* [Available from: OECD, Development Centre, 94 rue Chardon-Lagache, 75016 Paris, France].
- (0541) Wood, M.; Pilbeam, C.; McNeill, A.; Harris, H. 1997. Nitrogen cycling in a dryland cereal-legume rotation system. Pages 71-78 in *Accomplishments and Future Challenges in Dryland Soil Fertility Research in the Mediterranean Area: Proceedings of the Soil Fertility Workshop, IMPHOS/ICARDA, 19-23 Nov 1995, Aleppo, Syria (J. Ryan, ed.).* [Available from: ICARDA, Aleppo, Syria].
- (0542) Yau, S.K. 1997. Differential responses of barley, durum and bread wheat to high levels of soil boron. Pages 209-216 in *Accomplishments and Future Challenges in Dryland Soil Fertility Research in the Mediterranean Area: Proceedings of the Soil Fertility Workshop, IMPHOS/ICARDA, 19-23 Nov 1995, Aleppo, Syria (J. Ryan, ed.).* [Available from: ICARDA, Aleppo, Syria].
- (0543) Yau, S.K.; Nachit, M.M.; Ryan, J. 1997. Variation in boron-toxicity tolerance in a durum wheat core collection. Pages 117-120 in *Boron 97, Boron in Soils and Plants, Chiang Mai University/Murdoch University/Soils and Fertiliser Society of Thailand, 7-11 Sept 1997, Chiang Mai, Thailand (R.W. Bell and B. Berkasem, eds.).* [Available from: Kluwer Academic Publishers, Spuibld. 50, GR Dordrecht, Postbus 989, NL 3311, The Netherlands].
- (0544) Yau, S.K.; Saxena, M.C. 1997. Drought as a global concern in plant production. Pages 15-22 in *Drought and Plant Production: Proceedings, Vol. 1 (S.A. Quarrie and S. Pekic, eds.).* [Available from: Agricultural Research Institute "Serbia", Zeleni venac 2/III, Belgrade, Yugoslavia].

Theses

- (0545) Makkawi, M.M.A. 1995. Evaluation of seed vigor and its relationship to field performance in lentil (*Lens culinaris* Medik.). University of Khartoum (Sudan). Thesis (MSc). [En]. 180 pp.
- (0546) Abdel Aleem, E.A. 1996. Differential reaction of wheat cultivars to hot environments. University of Jordan (Jordan). Thesis (MSc). [En]. 87 pp.
- (0547) Abdel Rahim, A. 1996. Genotype environment interactions studies in field peas (*Pisum sativum* L.). American University of Beirut (Lebanon). Thesis (MSc). [En]. 216 pp.
- (0548) Badwan, R. 1996. Economics of wheat seed production in Jordan. University of Jordan (Jordan). Thesis (MSc). [En]. 188 pp. (Arabic summary).
- (0549) Faour, K.Y. 1996. Small ruminant production and land use in the Bekaa valley, Lebanon: a bio-economic model. American University of Beirut (Lebanon). Thesis (MSc). [En]. 196 pp.
- (0550) Hamed, A.A. 1996. Ecological studies on faba bean necrotic yellows virus: virus-vector relationship and yield loss assessment. American University of Beirut (Lebanon). Thesis (MSc). [En]. 70 pp.
- (0551) Impiglia, A. 1996. Seed storage proteins genetic variability in durum wheat landraces. University of Cordoba (Spain). Thesis (PhD). [En]. 151 pp.
- (0552) Ismail, M.I. 1996. Study of drought tolerance in several durum wheat genotypes subjected to water stress at various growth stages. University of Jordan (Jordan). Thesis (MSc). [En]. 108 pp. (Arabic summary).
- (0553) Mahdi, L.K. 1996. Agronomic assessment of variable sowing date, depth and seeding rate of wheat in a mediterranean-type environment. La Trobe University (Australia). Thesis (PhD). [En]. 219 pp.
- (0554) Masri, Z. 1996. The changes of soil structure and properties of red-brown earth with different farming under Mediterranean type conditions. Kuban State Agrarian University (Russian Federation). Thesis (PhD). [Ru]. 325 pp.
- (0555) Rihawi, S. 1996. Grazing of barley stubble in Syria: effects of stocking rate and sapon intake of stubble fractions. University of Reading (UK). Thesis (PhD). [En]. 694 pp.
- (0556) Wachholtz, R. 1996. Socio-economics of bedouin farming systems in dry areas of northern Syria. Universitaet Hohenheim (Germany). Thesis (PhD). [En]. 270 pp. (German summary).

- (0557) Abdel-Ghani, A.H.M. 1997. Assessment of variability among Baladi wheats grown in Jordan. University of Jordan (Jordan) Thesis (MSc). [En, Ar]. 97 pp.
- (0558) Al-Kokhon, N. 1997. Assessment of wind erosion under different practices in a rainfed area in Jordan. University of Jordan (Jordan). Thesis (MSc). [En]. 108 pp. (Arabic summary).
- (0559) Mulatu, B. 1997. Localization of resistance factors in leaf tissue profile of selected barley lines against the Russian wheat aphid (*Diuraphis noxia* Mordwilko, Homoptera: Aphididae). Wageningen Agricultural University (The Netherlands). Thesis (MSc). [En]. 57 pp.
- (0560) Saad Al-Aridhi, T.M. 1997. Response of chickpea and lentil to inoculation with different strains of root nodule bacteria (*Rhizobium*). University of Baghdad (Iraq). Thesis (PhD). [Ar]. 99 p.

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